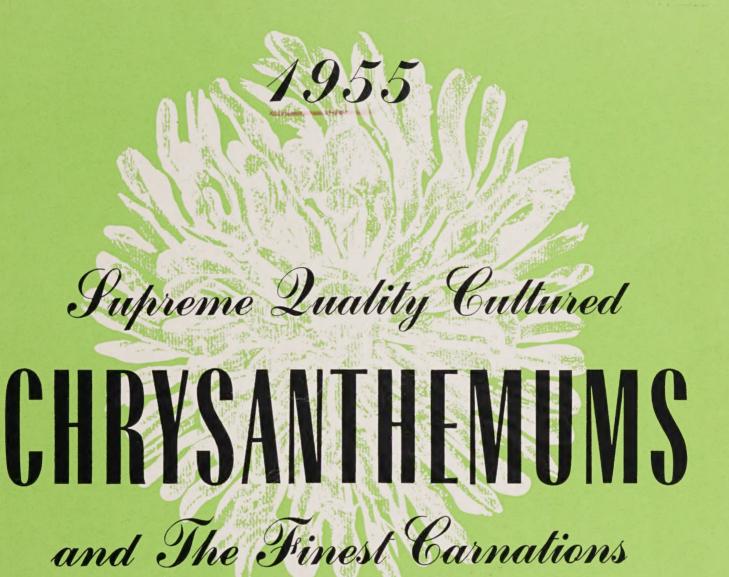
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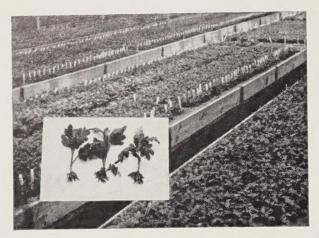


American Bull-Company

1335 W. RANDOLPH ST. CHICAGO 7, ILL.



31 WEST 27TH ST.
NEW YORK 1, N.Y.



A House of Stock Plants for A.B.C. Cuttings.

The popularity of the Chrysanthemum has made it a universally grown crop and it is very essential that all growers start with cultured healthy cuttings. These are the kind you will find in the pages listed in this catalog.

WHAT CAUSES PREMATURE BUDDING OF CHRYSANTHEMUM CUTTINGS DURING THE SPRING MONTHS, AND WHAT TO DO TO PREVENT IT*

Bud initiation can occur any time during the spring months, whenever your temperatures in the greenhouses are consistently 60 degrees Fahrenheit or above, and the days are short enough to initiate bud setting. These conditions can occur any time up until May 1st depending upon the variety and the locality in which they are being grown. Some varieties such as the garden varieties and early shading varieties require very little short day treatment, coupled with high temperatures to initiate buds. This same tendency to set bud readily is what makes these varieties desirable for early shading and garden work.

In order to prevent this premature setting of buds, these same varieties should be placed where they can be given additional light during the early spring months. Use 60 watt bulbs spaced 4 feet apart and 30 inches above the plants. Use the lights for a period of two hours each night after dark up until May 1st, then discontinue lighting.

*Courtesy of our Growers.

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A.B.C. Mum cuttings are packed in specially designed cartons and rushed to you by express to insure their reaching you in perfect conditions.

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Supplies

- 1. The minimum total order that can be accepted is 500 cuttings.
- 2. Fifty of each variety is the minimum that can be supplied.
- 3. More than 50 of a variety must be in multiples of 50.
- 4. No C.O.D. orders. Prices subject to change without notice.
- 5. SAFE ARRIVAL cannot be guaranteed. All shipments must be in satisfactory condition before being accepted by the common carrier. Our responsibility ceases upon receipt of shipment by their agent. If shipment arrives in bad order, i.e., broken, frozen or heated, call your express agent, have him inspect shipment and mark condition on the express receipt. Customer must file claim against the common carrier.

SUBSTITUTIONS—Our growers will substitute equal or better varieties for items not available unless order is marked NO SUBSTITUTIONS! To avoid substitutions, place your order 6 months before delivery date.

CHANGES OR CANCELLATIONS on orders must be received at least 30 days before shipping date!

DISCOUNTS—2% for cash with an order for plants or rooted cuttings.

AIR SHIPMENTS—If you live in or near a city with air service, check the rates. In many cases you will find them almost as cheap as railway express rates and delays in transit will be avoided.

We, the American Bulb Company, act as agents for the growers, and we do not warrant in any way, expressed or implied, the description, quality, productiveness or any other matter of any cuttings or plants sold by us. We, further, will in no way be responsible for failure to deliver on dates requested If the customer does not accept the goods on above terms he must return them at once, and money will be refunded or proper credit given. We exercise, however, the greatest care to ll our orders with the highest quality possible, as it is our constant aim to give our customers fullest satisfaction.

All goods are offered subject to crop failures, shortages or other causes

All goods are offered subject to crop failures, shortages or other causes beyond our control and to being unsold on receipt of order and we reserve the right to advance prices without notice.

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The Culture of Chrysanthemums, Any Season

By D. C. KIPLINGER

ASSOCIATE PROFESSOR OF FLORICULTURE OHIO STATE UNIVERSITY

Only fine quality chrysanthemums can be grown to compete in today's flower market. It is the aim of this catalog to present in brief but concise form the essential points in production of quality chrysanthemums.

NATURAL FLOWERING

Many growers prefer to flower the chrysanthemum only in its natural season and follow with different crops at other seasons of the year.

CUTTINGS

If possible, the cuttings should be planted as soon as they arrive. If there is no bench space available, the boxes of cuttings may be placed in a cool storage (32° to 40°F.) for as long as 2 weeks without damage, but longer periods are not recommended. To "soak up" cuttings which appear dried out from transit or storage, drop them in water for 10 to 15 minutes before planting.

BENCHING

The usual planting distance is 7 x 8 or 8 x 8 inches for plants to be pinched once. Set the plants quite shallow—deep planting may encourage stem rot. Even if they escape diseases, cuttings planted deep never start off as rapidly as those planted so that a few fall over with the first watering. Only 2 to 3 weeks is needed between planting and pinching which means that most cuttings will be planted in late June and July for natural flowering.

SOIL

Chrysanthemums do best in a well prepared soil that drains well yet retains adequate moisture and fertilizer to promote rapid growth. Organic matter is of the utmost importance in obtaining a desirable soil condition.

For years well rotted manure has been used with satisfactory results when added to the soil 1/3 to 1/4 by volume. Since manure is no longer easy to obtain, peat has been substituted and for many florists has proven better than manure. Peat has practically no fertilizer which virtually eliminates dangers of building up too high a concentration of nutrients in the soil for starting young plants. In addition, it resists decomposition and the soil will remain in better physical condition for a longer time with peat then with manure. Finely ground peat is not very satisfactory—only the coarser grades are recommended.

Whatever organic material you use, add enough to "condition" the soil. A tiller of some sort will do a better job of incorporating organic matter than spading in by hand.

Steam sterilization of soil is preferred to all other methods of controlling soil pests. Allow the soil to remain at 180°F. for 30 minutes and then turn the steam off. As soon as the soil is cool enough, cuttings can be

planted—there is no need to wait 2 or 3 weeks. Failure of cuttings to start properly in steamed soil is due largely to the fact that insufficient water is applied to the steamed soil. Steaming "opens up" most soil so water runs through freely. Therefore, it is very important that steamed soil be watered thoroughly to insure that all parts of it are wet. This can be most easily accomplished by watering newly planted cuttings at least twice. Examine the soil carefully and if dry areas are noted, water again even though much of the soil may be soaked. If the plants don't get off to a good start, they will never be top quality.

If reasonably fresh manure has been added to the soil, damage from ammonia may be noted in the form of browning of the stem tips and very young leaves. This can be prevented by broadcasting either gypsum or superphosphate onto the soil before or after steaming at 5 lbs. per 100 sq. ft.

Sometimes the soil may be either too acid or alkaline. Sulfur or iron sulfate at 1 lb. per 100 sq. ft. may be broadcast on the soil to lower the pH or make it more acid. Lime or limestone additions will raise the pH and generally from 3 to 5 lbs. of either material are applied to 100 sq. ft. of soil. When in doubt, send a soil sample to your State Experiment Station or County Agent to have it tested for pH. Mums will grow satisfactorily between pH 6.0 and 7.5.

FERTILIZER

Chrysanthemum cuttings start off best when the fertilizer content of the soil is low. Therefore, complete fertilizers should **not** be mixed with the soil before planting because there is danger of root damage to the young plants. If the soil is low in phosphorus, the incorporation of 5 lbs. of superphosphate per 100 sq. ft. will correct this deficiency and as stated previously will prevent ammonia burn.

As soon as the plants are well established, it is time to begin fertilizing, particularly with nitrogen since this is the key element in promoting plant growth. It is important to remember that chrysanthemums are not "heavy feeders" and they will do best when given light applications of fertilizer often. Whether dry or liquid fertilizers are used makes no difference—it depends upon your personal preference. Because watering will remove some of the fertilizer, particularly nitrogen, it is suggested that fertilizer be applied every 2 to 3 weeks. On poorly drained soil, less frequent applications should be made.

Some growers prefer to use complete fertilizers since they are easy to apply, particularly in dry form. Other growers will use just nitrogen and potassium because they are cheaper than complete fertilizers and the initial incorporation of superphosphate has supplied sufficient phosphorus for the life of the crop. Such materials as ammonium sulfate or sodium nitrate are used at 1 lb. per 100 sq. ft. or 1 oz. per 2 gal. while muriate of potash can be used at half this rate. An excellent source of nitrogen is ammonium nitrate which is used at ¾ lb. per 100 sq. ft. The fertilizer material potassium nitrate is ideal in that all of it can be used by the plant and leaves no salt residue in the soil. It is used at 1 lb. per 100 sq. ft. or 1 oz. per 2 gallons. Fertilization should be discontinued when buds begin to show color.

Where soil tests are used as a guide to fertilizer applications, nitrate nitrogen should be maintained at 25 parts per million (ppm), phosphorus at 5 ppm, potassium at 20 ppm, and calcium at 150 ppm using the Spurway system. The total fertilizer content of the soil is also very imortant. This is called the soluble salt or Solubridge reading and consists of a measure of all the fertilizers in the soil such as nitrates, sulfates, phosphates, potassium, carbonates, copper, boron, zinc, etc. Based on the use of 1 part of soil to 5 parts of water, a Solubridge reading less than 30 indicates the plants are being starved. Between 30 and 80 is considered ideal and 80 to 100 somewhat high. If 100 to 150, this indicates too much fertilizer and the plants probably are not growing as they should. Readings over 150 are usually associated with very poor growth or death of the plants.

Excessive fertilizer can be removed by heavy watering or leaching. Several leachings may be necessary to wash out the unnecessary fertilizer. High salt content of the soil may cause yellowing of the tops of the plants (chlorosis), but it should be pointed out that low pH and overwatering will do the same thing.

When the cause of chlorosis is remedied, the green color of the plants can be restored quickly by use of a material called chelated iron. The 12% chelated iron compounds are used at 1 oz. per 20 gallons of water and the solution is applied to the soil like a liquid fertilizer. The 6% chelates are used at twice this strength.

When either dry or liquid fertilizers are applied, it is very important that the soil be moist. As the fertilizer is washed into the soil, it is constantly being diluted by the moisture in the soil and this prevents root damage. If the soil is dry, the strong fertilizer solution will burn the roots.

WATERING

As soon as the cuttings are planted they should be watered twice. This will insure that the soil is moist in all parts. This is particularly important in steamed soils where the granulation or clumping together of soil particles causes air spaces through which water will flow rapidly. The level of the soil in the bench should be about one inch below the sideboards so that the water will not flow off the soil into the walks.

As the crop grows watering will become more frequent and during the hot summer weather, it is not uncommon to water the soil every other day. Such frequent watering will leach out nitrogen and it is important that the plants do not become starved at this time.

MULCHING

A mulch will reduce evaporation of water from the soil surface and will be beneficial in preventing crusting over of the soil. Peat is a very satisfactory material and an inch mulch is recommended. Unsterilized manure introduces weeds and weed seeds and may possibly carry root-knot nematodes; therefore, it is not advised. Too deep a mulch may encourage growth of organisms causing stem rot.

PINCHING

Chrysanthemum plants are pinched to induce branching and only one pinch is necessary to obtain the desired number of shoots. The time that the plants are pinched will regulate the spray formation on spray types and the kind of a bud on standard types. Thus the term "time pinching" has come into general use. A pompon plant pinched at the correct time will usually have a branched spray bearing numerous flowers but the sprays will not be awkward and difficult to bunch attractively. Plants pinched too early have awkward, loppy spray formations while those pinched too late have clubby, tight clustered flower heads. A standard mum time pinched will have a straight stem but if pinched too early, a "crown" bud forms which must be removed and this causes a dog leg in the stem making it crooked.

Cuttings should be benched 2 to 3 weeks before they are to be pinched. If given too much time to grow, they may form a crown bud and branch, making the operation of pinching a cumbersome procedure. Since the early flowering varieties are pinched before the later types, it is obvious that the early varieties should be planted first to be followed by the later maturing kinds. If everything is planted at once, the late varieties are sure to be very tall and possibly branched when they are ready for pinching.

Remove only a portion of the soft stem of the plant when pinching. A pinch made in hard wood usually results in fewer breaks that are delayed in their development.

PRUNING

Removing some of the stems on the spray type chrysanthemums several weeks after pinching is now a common practice. If all stems are allowed to develop after pinching, many will have few flowers and some will be blind. Light is the factor that is all important and if uniform quality stems are desired, the shoots must be pruned so that each receives approximately the same amount of light.

A retail grower can use some of the sparse flowered sprays in small arrangements, but a wholesale grower cannot afford to grow this kind of stock. Therefore, pruning to four stems per plant on pompons is recommended. If even better quality is wanted, retain three stems on all plants except the outside row which can have four because of the extra light. Standards usually are grown two per plant and here again three stems can be carried on plants in the outside row.

DISBUDDING

When growth is vigorous, many varieties of chrysanthemums will develop side shoots which should be removed periodically. This will be noticed particularly on the outside rows when spray type mums are being grown. On standards, only one flower is produced per stem so that all side shoots should be removed when they are long enough to handle conveniently. When the flower bud appears at the top of the stem of a standard mum it will be surrounded by smaller flower buds. These should be removed when of convenient size so that the central bud will mature rapidly and be of large size.

Occasionally on standard mums a "crown" bud will develop. This is a flower bud which forms in long days and is surrounded by vegetative shoots. In most cases the crown does not make a desirable flower, hence it should be removed and only one strong, straight, vegetative shoot immediately below it should be retained. Crown buds are quite apt to appear when the plants are pinched too early.

Some of the larger flowered spray type chrysanthemums are improved if a few of the flowers are removed. This adds size and quality to the remaining flowers. The larger decorative or anemone types can be markedly improved by removing the center flower since this "loosens" the spray formation.

TEMPERATURE

Although the chrysanthemum flowers in the fall, it is not a cool crop as has been believed. Most varieties will not form flower buds unless the night temperature is 60°F. Therefore, between August 15 and September 15 when flower bud formation normally takes place, it is very important that the night temperature be high enough. If the temperature is not sufficiently high, the plants will be blind; this is common on late varieties which form buds late. When flower buds are visible, the temperature may be reduced gradually to 55° or even 50°F, which will enhance the quality of most varieties, but delays maturity. Many 13 and 14 week varieties must be cooled somewhat to develop the flowers. Keeping the houses at 45°F, will delay development but quality suffers. In the greenhouse the stock may look perfect at such a cold temperature, but after it is cut and placed at room temperature it may not take up water and deteriorates rapidly.

LIGHT

To get the highest quality product, the plants should receive as much sunlight as possible. This means that no shade should be used on the glass unless the temperature in the greenhouse becomes unbearable as it may in the South.

Petal burn may be found on soft varieties that flower in periods of bright light and this can be prevented by placing cheesecloth about two feet above the flowers.

SUPPORT

The spray type chrysanthemums are generally supported by wires run lengthwise between the rows with strings crosswise between the plants. If turnbuckles are used to keep the wires tight, only one such set of wires and strings is needed providing it is raised periodically as the plants grow. Many growers prefer two sets of wires and strings. Since the flowers constitute about half the weight of the stem, the top set of wires must be high enough to prevent lopping.

Standards can be supported in the same manner as described for spray types. Seldom seen are wire or bamboo stakes to which the stems are tied loosely every 6 to 8 inches. Such stakes are fastened to an overhead wire for rigidity.

When the network of wires and strings are used, they can be raised at the end of the crop and used again for the following crop.

VENTILATION

A light, buoyant atmosphere is the most desirable for chrysanthemums. During spring, summer, and early fall, the ventilators will be wide open most of the time. Side ventilation helps air circulation but is an open invitation to thrips, grasshoppers, and tarnished plant bugs if there are weeds in the vicinity of the greenhouse.

As cool weather develops, ventilation should be reduced somewhat but it is important that there is enough "air" to prevent mildew or Botrytis blight from developing because of high humidity.

HUMIDITY

In summer wetting walks to provide humidity is important but in cooler fall weather, this practice should be eliminated because of dangers of disease.

CUTTING FLOWERS

Most growers wait too long before cutting the stock. When the flowers are quite well developed in the greenhouse, they have reached their peak and will never be as satisfactory for the consumer as stock cut slightly on the "green" side. Because there are so many varieties, it is difficult to state hard and fast rules. However, spray types should be cut when the center flower is open and the surrounding flowers are reasonably well developed. If pollen sheds badly as it may on some singles, the stems should be cut before this occurs. Standard mums should be cut while there are still some petals developing in the center.

Never cut into hard wood because such stems may not absorb water satisfactorily. Even if slightly crushed with light blows from a hammer, some stems may fail to take up water, though this method is usually effective. The lower one-third of the foliage should be removed and the stems are placed in water. Warm water (80° to 100°F.) is desirable for rapid "soaking up" but the air temperature should be 45° to 50°F. After several hours they may be graded and packed.

GRADING

Although there are no universal grades for spray types, a 9 oz. bunch is the generally accepted size. Since most retailers do not favor bunches with less than five stems, growers often try and select uniform stems to make a bunch with five stems that weighs between 9 and 11 ounces. Where light weight stems are being bunched, it may be necessary to place as many as 10 to 12 together to meet the 9-ounce requirement. Eye appeal is a controlling factor in sales and there must be enough "flower area" in a bunch if it is to sell.

Standard chrysanthemums are generally sold loose, but if bunched, the larger sizes should be put together.

SHIPPING

Protection for bunches of the spray types can be obtained by wrapping each bunch with cellophane or wax paper. Tissue paper dries out the petals and should not be used. Standard mums should be cushioned by a roll of newspaper just back of the heads and a layer of wax paper underneath each row of flowers.

To prevent movement in the shipping box, the stems should be cleated or sewn to the bottom with heavy twine.

For insulation in cold weather, layers of newspapers have been used for years. Some of the newer insulating materials such as the Jiffy liner are more effective. In warm weather the stock can be cooled prior to packing, then kept cool by means of ice along with insulation.

DRY COLD STORAGE

Although chrysanthemums are well known for their long keeping quality, they mature most rapidly in water. By placing the bunches in dry storage at 31° to 33°F., the flowers may be held for several weeks. Conventional corrugated shipping boxes may be used and should be lined with wax paper or a polyethylene sheet. The bunches are laid in, covered over with the lining material, and the box is tied. Although not completely air tight, it is sufficient to reduce the exchange of oxygen and carbon dioxide so that the flowers will keep. Upon removal from the storage, the bottom inch of stem should be cut off, and the bunch placed in water at 80° to 100°F. for several hours to soak up. The air temperature should be 45° to 50°F.

Only the very best plant material should be stored since disease organisms will develop in storage even at the very low temperatures.

YEAR AROUND FLOWERING

Variety response groups

It is convenient to refer to varieties according to their response group which is the number of weeks that elapse from the time short days are started until flowering. The early varieties are the 7 and 8-week groups, midseason varieties are the 9, 10, and 11-week groups, and late varieties are the 12, 13, and 14-week groups.

The 7, 8, and 9-week varieties of spray types are

not recommended for flowering in January, February, and March because the sprays are too clubby. The use of the later varieties at this time insures better spray formation and greater production because the later varieties appear to tolerate low light intensities. The late varieties are not used in spring, summer, and fall because they do not tolerate high temperature.

SHADING FOR A SHORT DAY

The chrysanthemum will form and develop its flowere buds when the length of day in 13½ hours or less. To obtain this condition, the plants are covered with black sateen or plastic cloth at 5 P.M. and this is removed at 7 to 8 A.M. This must be done daily when the natural day length is greater than 13½ hours until the flower buds on standard mums are the size of a nickel and spray types show color.

LIGHTING FOR A LONG DAY

If the plants are to be prevented from forming flower buds, it is necessary that they be lighted each night when the natural day length is short enough to cause flower buds to form. This can be accomplished by placing lights in suitable reflectors over individual benches as follows: 60-watt bulbs spaced 4 feet apart, 2 feet above the tops of the plants; or 100-watt bulbs spaced 6 feet apart, 2 to 3 feet above the tops of the plants. Where the entire house is to be equipped with lights, 300-watt reflector bulbs can be placed near the ridge or in wider hosues two lines should be installed. About 1½ watts of light will be needed per square foot of ground areas covered by the greenhouse.

Ten foot candles of light will prevent flower bud formation on all but the very earliest chrysanthemum varieties. The light installations described above will be adequate to provide 10 foot candles.

Actually the chrysanthemum is a long night rather than a short day plant so if the night is broken up or interrupted by light, flower buds won't form. Therefore, begin lighting at 10 P.M. for the number of hours indicated.

2 hours in August	5 hours in January
2½ hours in September	4 hours in February
3 hours in October	3 hours in March
4 hours in November	2 hours in April
5 hours in December	1½ hours in May

Controlling day length

The time to start and stop both lighting and shading is shown in the table below:

LIGH	ITING	SHADING		
Start in fall on	Stop in spring on	Start in spring on	Stop in fall on	
Aug. 1	May 25	April 10	Sept. 5	
Aug. 7	May 12	March 25	Sept. 15	
Aug. 20	May 1	March 10	Oct. 1	
Sept. 1	April 15	Feb. 25	Oct. 15	
	Start in fall on Aug. 1 Aug. 7 Aug. 20	fall on spring on Aug. 1 May 25 Aug. 7 May 12 Aug. 20 May 1	Start in fall onStop in spring onStart in spring onAug. 1May 25April 10Aug. 7May 12March 25Aug. 20May 1March 10	

TEMPERATURE

The night temperature must be at least 60°F. when short day conditions are started to form flower buds. In fact, a 62°F. night temperature is somewhat safer since there is considerable variation of the temperature in different parts of the greenhouse. In case the air around one or more beds is slightly cooler, the plants can be covered with black cloth and a heating pipe placed underneath to insure a high enough temperature. If it is possible to lower the temperature to 55° to 58°F. after the buds are clearly visible, quality will be improved though maturity will be slightly delayed.

In summer there will often be a delay in development caused by excessive heat under the black cloth. Some of this can be prevented by waiting until 7 P.M. before putting on the cloth and then removing it at the customary time in the morning. Fans are also helpful in bringing in cooler air under the cloth. When the night temperature reaches 85° or 90°F. under the cloth for as little as one hour, delay can be expected. When the 13 and 14-week varieties are used, delay of flowering is common at a night temperature of 65°F.

Pink, bronze, and red varieties generally fade quite badly if flowered from June to September and except for certain varieties their use at this period is not recommended. Burning of the petals of some of the soft varieties can be prevented in hot, bright weather by placing cheesecloth about 2 feet above the flowers.

SPACING

The more space a stem is given, the larger and heavier will be the spray or the size of the flower. Overdoing space will result in such large pompon sprays that retailers may not buy them. Therefore, a 6 x 4 inch spacing for spray types and 6 x 5 inch spacing for standards is suggested when the no pinch schedule is to be used. It is possible that even closer spacing can be used to advantage; much depends on how much sunlight the plants receive and the market preference.

GENERAL SUGGESTIONS

The growth of the plants must never be checked if a schedule is to be followed. Therefore, thorough attention must be given to soil preparation, fertilizers, watering, etc., so that there will be no delay in growth. The general cultural practices of disbudding, cutting, etc., are the same as with chrysanthemums flowered at their normal time.

Potted Chrysanthemums

Improved cultural practices have revived the popularity of potted mums and today they are available on a year around basis. More than anything else, their good keeping quality has contributed to their success.

Today's methods are centered around rapid, unchecked growth and 90 to 100 days is about the average length of time for production of quality pot mums.

SOIL

Rapid development of the plants can only be obtained if the soil mixture is ideal. Incorporating 1/4 to 1/3 rotted manure or peat moss or a combination of the two is about the best method of getting a soil that is porous and well drained yet will hold adequate moisture. Steam sterilization is the best method of combatting insect pests, diseases, weeds, and weed seeds.

FERTILIZERS

As soon as the roots begin to develop along the pot wall, it is time to begin fertilizing. This will be about a week after potting if conditions are right. Because the plants will be watered so frequently, the use of a complete fertilizer every 7 days is advised. Whether the fertilizer is applied dry or liquid makes no difference but liquid applications are much faster. Fertilization should continue until the plants are ready for sale.

WATERING

After the plants become established and considerable foliage develops, they will require frequent watering. In summer it may be necessary to water them three times a day depending upon the temperature and size of the plants. This is so because the plants are usually grown with no shade on the glass. When the flowers are opening and the plants are almost mature, overwatering will kill the roots and it is at this time that good judgment be used in applying water.

TEMPERATURE

Uniform formation of flower buds is best obtained

by keeping the night temperature at 65°F. when short days are started. After buds are visible the temperature can be lowered to 60° to 62°F. Too low a night temperature causes uneven formation of flower buds or blindness on some shoots.

In very hot summer weather delay in development is common. At this time of year yellow and white varieties should be grown because most pink, red, or bronze types fade badly.

DISBUDDING

The greatest demand is for the large sized flowers, therefore, each stem should be disbudded to one flower. Don't start disbudding until most of the shoots have buds large enough to handle easily; otherwise if you disbud only a stem or two at a time, the shoots disbudded first will flower too far ahead of those disbudded later.

PINCHING

Although the single pinch system is universally used, occasionally no pinch is employed and for very large plants the double pinch system is best.

No pinch — the main advantage is larger flowers on varieties like the Indianapolis group. From 6 to 9 cuttings are placed in a 6-inch azalea pot and short days are started about 7 days after potting.

Single pinch — this is used by most growers because it is fast and the size of the specimens will satisfy most demands. Five or 6 cuttings are placed in a 6-inch azalea pot and the plants are pinched 7 days after potting. Pinch relatively soft—if pinched too low, there will be fewer breaks. The plants should be shaded the same day they are pinched. In very dark weather the plants may be too short and this can be overcome by lighting for 7 days after pinching, then starting short day treatment.

Double pinch — for large specimen plants this system is preferred. Plant 3 or 4 cuttings in a 6-inch azalea pot and soft pinch after 7 days. Then after 3 weeks pinch again so that only 3 leaves remain on each stem. Start short days at the time of the second pinch.

SPACING

The plants can be grown pot to pot in the early stages but as they develop, the pots must be spaced or the plants will stretch. Not only does spacing prevent legginess but also it allows room for the lower shoots to "round out" the plant.

GARDEN VARIETIES

For April and May a number of garden varieties can be grown and after the flowers have withered, the plants can be cut back, separated, and planted in the garden where they will flower again in the fall. Producing these is quite simple since lights and shade are not needed. Five cuttings from lighted stock plants are placed in a 5 or 6-inch pot anytime between February 1 and March 1. Allow to grow 7 days, then pinch. The days will be short enough so that no black cloth is necessary. The temperature must be 65°F. until flower buds are visible, then it may be dropped between 55° and 60°F. Most of the garden varieties are 7 and 8-week types and will flower in about 60 days from the pinch date. Flowers on these garden types are not as large as the regular mum varieties so they should not be disbudded.

SMALL POT MUMS

There is ever increasing interest in the flowering of chrysanthemums in 3-inch standard or $3\frac{1}{2}$ -inch azalea pots. They are very useful for combination or mixed pots which are an important part of spring bedding plant sales in many parts of the country. In addition there is some interest in selling these as small plants for home decoration in place of the larger sizes.

Immediately after potting, the plants should be soft pinched and short day treatment started. By doing this the plants are kept short—in proportion to the small pot. Many of the 7, 8, 9, 10, and 11-week varieties will be suitable for combination pots, but only the shorter kinds are suitable as plants for the home.

Pest Control

To produce quality chrysanthemums one must always be looking for insects and diseases since a crop can be seriously damaged or completely ruined in a relatively short time. The common insects, diseases and allied pests are briefly described and up-to-date control measures are presented.

INSECTS AND ALLIED PESTS

Aphids

These are usually black or green and are found on the young tender growth. They multiply very rapidly and when they get in the unfolding leaves at the shoot tip, they are very difficult to completely eradicate.

Dithio, Malathion, or Parathion bombs are quite effective. Malathion, Lindane, or Parathion dusts or sprays can also be used. The systemic insecticides applied to the soil are relatively slow to act but are highly recommended.

CHRYSANTHEMUM MIDGE

Galls are formed on the leaves and stems and they are about ¼ inch long and very prominent. DDT or Parathion dusts or sprays will control this pest if several applications are made to keep the new growth covered.

CUTWORMS

These may be quite troublesome at the time of flowering. They are most active at night and may escape detection until serious damage has been done. DDT, Parathion, and Chlordane are effective for combatting this pest.

CYCLAMEN MITE

When the leaves at the stem tip are distorted and growth almost ceases, it is usually indicative that mites are present. They are too small to be seen without the aid of a strong magnifying glass. Parathion sprays directed into the stem tips is an effective control as are the systemic insecticides.

FOLIAR NEMATODE

This is a relative of the root-knot nematode but it inhabits the aerial portions of the plant. It moves from leaf to leaf through films of moisture and the damage appears as wedge shaped brown areas between the veins of the leaf. The leaf or foliar nematode is too small to be seen except with the aid of a microscope.

Keeping the foliage dry prevents their spread but may not be a practical means of control. Parathion sprays are best but several applications are necessary.

GRASSHOPPERS

Chlordane, Aldrin, or Dieldrin are highly effective.

LEAF MINER

These are small insects which feed inside the leaf tissues and as they travel within, a light greenishyellow colored area is very noticeable. Parathion dusts or sprays or systemic insecticides are effective.

LEAF ROLLER

The worms or caterpillars which feed on the underside of the foliage leaving a transparent film of the upper surface of the leaf is indicative that leaf tiers or rollers are present. DDT, Malathion, or Parathion are useful if applied before the insect rolls the leaves together to form a coccoon.

MEALYBUGS

Although the damage they cause is minor, the masses of grayish white bugs are unsightly. The natural protective hairy covering makes control of the older mealybugs quite difficult. Young ones are killed by repeated use of Parathion, Dithio, or Malathion.

RED SPIDER

The mottled condition of the foliage is too well known to require further description. Many insecticides have been made to combat this pest and the use of more than one kind is suggested to avoid development of "resistant" strains.

Aramite, Malathion, Parathion, Chlorobenzilate, and

TEPP sprays are all quite effective. In aerosol form Parathion and Dithio can be used. The systemics are also valuable but are somewhat slow acting.

SLUGS, SNAILS

Chlordane in which metaldehyde is used as an attractant is effective.

SOWBUGS

Sometimes called pillbugs, these pests chew stems on young plants. DDT is effective.

SYMPHYLIDS

The root system of plants is chewed by these pests and growth is severely checked. They are white to light tan, about ¼ inch long, with two prominent antennae or feleers on their head. They move quite rapidly when disturbed and will dart back into soil crevasses if exposed to the light. A Lindane soil drench using 1 oz. of wettable powder to 30 gal. water which is applied to 100 sq. ft. of bench area is effective. In raised benches, steaming will control them, but since they move downward it is not an effective control in ground beds. The Lindane treatment will last about one year.

SPITTLE BUGS

A frothy mass resembling spit is the hiding place of

this small greenish colored insect. Lindane dusts or sprays will control it.

TARNISHED PLANT BUGS

These pests sting the growing tips which wilts and often abnormal branching is noted. Affected shoots seldom flower. DDT or Parathion in dust or spray form will control this pest but must be applied regularly.

TERMITES

Roots or stems may be "hollowed out" from attacks of this pest. No control is possible in this stage other than destruction of the plants. Termite swarms can be killed by Lindane or Chlordane dusts or sprays.

THRIPS

There are several types which attack the leaves and flowers at various times of the year. A short silvery colored streak is indicative that thrips are attacking the leaves and on petals the color may be brown. Lindane, Malathion, DDT, Parathion, Aldrin, and Dieldrin are all quite useful.

WHITE FLY

The injury is minor but their presence is undesirable. Either Parathion or DDT will eradicate them.

Diseases

BACTERIAL STEM ROT

In warm weather a rot in the central portion of the stem beginning at the base will often cause heavy losses. It is most pronounced when the soil is kept unduly moist. Steaming the soil is the best means of control. Affected plants should be removed and destroyed.

BOTRYTIS

A rot of the petals, particularly on the softer varieties, is usually caused by the fungus organism known as Botrytis or gray mold. The affected area appears watersoaked.

Growth of the organism is favored by high humidity, therefore, air circulation is an important means of control. Use of heat lines when temperatures warrant or fans to move the air are two means of preventing growth of Botrytis. Dusting with Parzate or Zerlate is also useful. Burn caused by high light intensity may appear similar, but it occurs in bright weather, and at that time Botrytis is usually not a problem.

DODDER

This parasitic plant grows rather freely on chrysanthemums and can over-run the crop in a relatively short time. Dodder seed lives over winter in the soil and after germination, slender yellow-orange colored threads twine around the foliage and stems and obtain their food from the chrysanthemum.

Steaming soil will kill the seed. If dodder is found, all traces of it must be removed either by hand picking or destroying the mums or it will become a very serious pest.

MILDEW

The familiar white powdery appearance of the upper surface of the leaf is indicative that mildew is present. Occasionally stems will be affected. Mildew spores germinate and grow best in high humidity so air circulation by means of heat, ventilation, and fans will prevent or control it. Sulfur is effective but will bleach flowers. Mildex is also useful.

ROOT-KNOT NEMATODE

As the name implies, small knots are found on the root system; affected plants will lack vigor. There is no control other than destroying the plants and steaming the soil.

RUST

Small raised areas or blisters appear on the leaves or stems and when these break open, brown spores are released. Splashing water spreads this organism, so keeping the foliage dry and applications of Fermate, Zerlate, or Parzate are recommended controls.

SEPTORIA BLACK SPOT

Irregular black spots or blotches appear on the foliage particularly when moisture is present. The use of Captan, Fermate, Zerlate, or Parzate sprays will control this disease organism.

STEM ROT

Loss of plants from this trouble is common if the cuttings are planted too deep, overwatered, or too heavy a soil is used. Drenching the soil with a Fermate solution (1lb. per 100 gal.) will kill the organism at the soil surface. Shallow planting is recommended.

STUNT

Once greatly feared, this virus is now not a serious problem. Indexing stock or carefully selecting cuttings from presumably healthy plants are the control measures that have been used.

VERTICILLIUM WILT

Though this fungus organism never kills the plant, it causes loss of foliage and vigor so the cut flowers are usually rendered unsalable. The organism lives in the soil and the plant, so steaming plus the use of cultured cuttings will insure a minimum of losses.

A.B.C. Supreme Quality Rooted Cuttings

SCHEDULE OF OPERATIONS FOR POT MUMS THE YEAR AROUND

Date of last		Date of flowering	ng for	Date of last		Date of flowering	ng for
of short days	9-week varieties	10-week varieties	11-week varieties	pinch and start of short days	9-week varieties	10-week varieties	11-week varieties
Jan. 3	Mar. 7	Mar. 14	Mar. 21	July 4	Sept. 5	Sept. 12	Sept. 19
Jan. 10	Mar. 14	Mar. 21	Mar. 28	July 11	Sept. 12	Sept. 19	Sept. 26
Jan. 17	Mar. 21	Mar. 28	April 4	July 18	Sept. 19	Sept. 26	Oct. 3
Jan. 24	Mar. 28	April 4	April 11	July 25	Sept. 26	Oct. 3	Oct. 10
Jan. 31	April 4	April 11	April 18	Aug. 1	Oct. 3	Oct. 10	Oct. 17
Feb. 7	April 11	April 18	April 25	Aug. 8	Oct. 10	Oct. 17	Oct. 24
Feb. 14	April 18	April 25	May 2	Aug. 15	Oct. 17	Oct. 24	Oct. 31
Feb. 21	April 25	May 2	May 9	Aug. 22	Oct. 24	Oct. 31	Nov. 7
Feb. 28	May 2	May 9	May 16	Aug. 29	Oct. 31	Nov. 7	Nov. 14
Mar. 7	May 9	May 16	May 23	Sept. 5	Nov. 7	Nov. 14	Nov. 21
Mar. 14	May 16	May 23	May 30	Sept. 12	Nov. 14	Nov. 21	Nov. 28
Mar. 21	May 23	May 30	June 6	Sept. 19	Nov. 21	Nov. 28	Dec. 5
Mar. 28	May 30	June 6	June 13	Sept. 26	Nov. 28	Dec. 5	Dec. 12
April 4	June 6	June 13	June 20	Oct. 3	Dec. 5	Dec. 12	Dec. 19
April 11	June 13	June 20	June 27	Oct. 10	Dec. 12	Dec. 19	Dec. 26
April 18	June 20	June 27	July 4	Oct. 17	Dec. 19	Dec. 26	Jan. 2
April 25	June 27	July 4	July 11	Oct. 24	Dec. 26	Jan. 2	Jan. 9
May 2	July 4	July 11	July 18	Oct. 31	Jan. 2	Jan. 9	Jan. 16
May 9	July 11	July 18	July 25	Nov. 7	Jan. 9	Jan. 16	Jan. 23
May 16	July 18	July 25	Aug. 1	Nov. 14	Jan. 16	Jan. 23	Jan. 30
May 23	July 25	Aug. 1	Aug. 8	Nov. 21	Jan. 23	Jan. 30	Feb. 6
May 30	Aug. 1	Aug. 8	Aug. 15	Nov. 28	Jan. 30	Feb. 6	Feb. 13
June 6	Aug. 8	Aug. 15	Aug. 22	Dec. 5	Feb. 6	Feb. 13	Feb. 20
June 13	Aug. 15	Aug. 22	Aug. 29	Dec. 12	Feb. 13	Feb. 20	Feb. 27
une 20	Aug. 22	Aug. 29	Sept. 5	Dec. 19	Feb. 20	Feb. 27	Mar. 5
June 27	Aug. 29	Sept. 5	Sept. 12	Dec. 26	Feb. 27	Mar. 5	Mar. 12

POT PLANT VARIETIES

Variety	Last pinch	Flowering date	Variety	Last pinch	Flowering date
	WHITE		BR	ONZE AND RED	
	8-week			9-week	
Christina Granite State	August 30 9-week August 30	October 25	Dalwin Antique Apricot Queen	August 30 September 13 September 13	October 25 November 1 November 1
Queens Lace Wilson's White	September 13 August 30	November 1 November 1	Royal Bronze	September 13 10-week	November 1
Indianapolis White Richard Mandel	10-week September 13 September 6 11-week	November 5 November 5	Indianapolis Bronze Delaware Barbara Fuller Copperhead Firegleam	September 13 September 13 September 13 September 13 September 13	November 5 November 8 November 10 November 10 November 10
Little America	September 13	November 10	Red King Cadet	September 13 September 13	November 13 November 14
White Lady	12-week September 20	November 25		PINK	
	YELLOW			8-week	
	8-week		Major Bowes	August 30	October 20
Arlora Gold Lode Sundew Butterball	August 30 August 30 August 30 August 30	October 15 October 15 October 15 October 20	Bluechip	9-week August 30	November 1
Blazing Gold	August 30	October 23		10-week	
Ordalia Starlight Gold Lace Hooked Yellow Lace Yellow Lace	9-week August 30 August 30 September 13 September 13 September 13	October 25 October 25 November 1 November 1 November 1	Indianapolis Pink Criterion Portrait Cover Girl Humdinger Queen of Pinks Thyra	September 13 September 6 September 6 September 6 September 6 September 6 September 6	November 5 November 8 November 10 November 10 November 10 November 10
	10-week			11-week	
Improved Ind. Yellow Indianapolis Yellow Dark Indianapolis Yellow	September 13 September 13 September 13	November 5 November 5 November 5	Polka Illini Formal	September 13 September 13	November 20 November 23
	11-week			12-week	
Bonnafon Deluxe	September 13	November 20	Beautiful Lady	September 20	November 25

CHICAGO American Bulb Company NEW YORK

Schedule of Operations for Unpinched Chrysanthemums at Any Season

Plant	Light			Shad	e or start shor	t days beginn	ing**			Date
rooted cuttings*	beginning	For 7-week var.	For 8-week var.	For 9-week var.	For 10-week var.	For 11-week var.	For 12-week var.	For 13-week var.	14-week var.	of flower- ing
Jan. 14	Jan. 14		Mar. 10	Mar. 3	Feb. 25	Feb. 18				May 5
Jan. 21	Jan. 21	Mar. 24	Mar. 17	Mar. 10	Mar. 3		, d			May 12
Feb. 4	Feb. 4	Mar. 31	Mar. 24	Mar. 17	Mar. 10		ric	ಣ		May 19
Feb. 11	Feb. 11	Apr. 7	Mar. 31	Mar. 24	Mar. 17		pe	io	ਰੂ	May 26
Feb. 25	Feb. 25	Apr. 14	Apr. 7	Mar. 31	Mar. 24		ng	beī	rio	June 2
Mar. 3	Mar. 3	Apr. 21	Apr. 14	Apr. 7	Mar. 31		not use 12-week varieties for this flowering period.	Do not use 13-week varieties for this flowering period.	Do not use 14–week varieties for this flowering period.	June 9
Mar. 17	Mar. 17	Apr. 28	Apr. 21	Apr. 14	Apr. 7) M	l rii	28	June 16
Mar. 24	Mar. 24	May 5	Apr. 28	Apr. 21	Apr. 14		flo	Me We	iri	June 23
Mar. 31	Mar. 31	May 12	May 5	Apr. 28	Apr. 21		iis	fl ₀	M	
Apr. 7	Apr. 7	May 19	May 12	May 5	Apr. 28		r T	S	ff	June 30
Apr. 14	Apr. 14	May 26	May 19	May 12	May 5		fo.	\$	sic	July 7
Apr. 21	Apr. 21	June 2	May 26	May 19	May 12		es S	or	平	July 14
Apr. 28	Apr. 28	June 9	June 2	May 26	May 19		eti	S	Į Į	July 21
May 5	May 5	June 16	June 9	June 2	May 26		ari	stic.	e N	July 28
May 12	lilay o	June 23	June 16	June 9	June 2		>	i.i.	eti	Aug. 4
May 19	ជ	June 30	June 23	June 16	June 9		eel	N N	ari	Aug. 11
May 26	/ee	July 7	June 30	June 23	June 16		M-	e k	> M	Aug. 18
June 2	stv	July 14	July 7	June 30	June 23		12.	We	se l	Aug. 2
	use lights between d August 1.	-	_	July 7			Se	67	M-	Sept. 1
June 9	hts	July 21	July 14	_	June 30		ä	р П	14-	Sept. 8
June 16	to use lights b	July 28	July 21	July 14	July 7		tot	ns	e e	Sept. 1
June 16	Au	Aug. 4	July 28	July 21	July 14		До 1	ot	ä	Sept. 2
June 23	nsn	Aug. 11	Aug. 4	July 28	July 21	July 14	А	n c	ot	Sept. 2
June 30		Aug. 18	Aug. 11	Aug. 4	July 28	July 21		Ã	0 1	Oct. 6
June 30	ry 15		Aug. 18	Aug. 11	Aug. 4	July 28	July 21		А	Oct. 13
July 7	Not necessary May 15			Aug. 18	Aug. 11	Aug. 4	July 28			Oct. 20
July 14				Aug. 25	Aug. 18	Aug. 11	Aug. 4	July 28		
July 14	ne				Aug. 25	Aug. 18	Aug. 11	Aug. 4		Nov. 3
July 21	ot	ಗ			Sept. 1	Aug. 25	Aug. 18	Aug. 11	Aug. 4	Nov. 10
July 28	Z	i	od	iod	Sept. 8	Aug. 25	Aug. 18	Aug. 11	Aug. 11	Nov .17
July 28		flowering period.	flowering period.	flowering period.	Sept. 15	Sept. 8	Sept. 1	Aug. 25	Aug. 18	Nov. 24
Aug. 4	Aug. 4	<i>2</i> 6	Ď.	200	Sept. 22	Sept. 15	Sept. 8	Sept. 1	Aug. 25	Dec. 1
Aug. 11	Aug. 11	ii	ing	-Ę	Sept. 29	Sept. 22	Sept. 15	Sept. 8	Sept. 1	Dec. 8
Aug. 11	Aug. 11	we	rer	ve	Oct. 6	Sept. 29	Sept. 22	Sept. 15	Sept. 8	Dec. 15
Aug. 18	Aug. 18	Ho.	WO.	lov	Oct. 13	Oct. 6	Sept. 29	Sept. 22	Sept. 15	Dec. 22
Aug. 25	Aug. 25	S			Oct. 20	Oct. 13	Oct. 6	Sept. 29	Sept. 22	Dec. 29
Aug. 25	Aug. 25	th	Thi	th.	Oct. 27	Oct. 20	Oct. 13	Oct. 6	Sept. 29	Jan. 5
Sept. 1	Sept. 1	for	ir 1	or	Nov. 3	Oct. 27	Oct. 20	Oct. 13	Oct. 6	Jan. 12
Sept. 8	Sept. 8	S	e fe	S £	Nov. 10	Nov. 3	Oct. 27	Oct. 20	Oct. 13	Jan. 19
Sept. 15	Sept. 15	tie	ies	tie	Nov. 17	Nov. 10	Nov. 3	Oct. 27	Oct. 20	Jan. 26
Sept. 22	Sept. 22	ırie	iet	rie	Nov. 24	Nov. 17	Nov. 10	Nov. 3	Oct. 27	Feb. 2
Sept. 29	Sept. 29	Λa	/ar	Val	Dec. 1	Nov. 24	Nov. 17	Nov. 10	Nov. 3	Feb. 9
Oct. 6	Oct. 6	e k	Ä	썾	Dec. 8	Dec. 1	Nov. 24	Nov. 17	Nov. 10	Feb. 16
Oct. 13	Oct. 13	we	9	Vee	Dec. 15	Dec. 8	Dec. 1	Nov. 24	Nov. 17	Feb. 23
Oct. 20	Oct. 20	7-1	≱	9-week varieties for this	Dec. 22	Dec. 15	Dec. 8	Dec. 1	Nov. 24	Mar. 2
Oct. 27	Oct. 27	Do not use 7-week varieties for	Do not use 8-week varieties for this		Dec. 29	Dec. 22	Dec. 15	Dec. 8	Dec. 1	Mar. 9
Nov. 3	Nov. 3	n i	nsı	Do not use	Jan. 5	Dec. 29	Dec. 22	Dec. 15	Dec. 8	Mar. 16
Nov. 10	Nov. 10	nou	ot	not	Jan. 12	Jan. 5	Dec. 29	Dec. 22	Dec. 15	Mar. 23
Nov. 17	Nov. 17	0 1	n c	0 11	Jan. 12	Jan. 12	Jan. 5	Dec. 29	Dec. 13	Mar. 30
Dec. 1	Dec. 1	Д	ñ	Ã	1			Jan. 5	Dec. 22	Apr. 6
Dec. 8	Dec. 8				Jan. 26	Jan. 19	Jan. 12			
Dec. 22	Dec. 22			Feb 10	Feb. 2	Jan. 26	Jan. 19	Jan. 19		Apr. 13
Dec. 29	Dec. 29			Feb. 16	Feb. 9	Feb. 2	Jan. 26			Apr. 20
	_ 50. 20			Feb. 23	Feb. 16	Feb. 9	Feb. 2			Apr. 27

^{*}For a pinched crop, pinch on this date and plant as indicated below:—

When planting Nov. 15 to Feb. 14, allow 5 weeks from planting to pinching.

When planting Feb. 15 to May 14, allow 4 weeks from planting to pinching.

When planting May 15 to Aug. 14, allow 3 weeks from planting to pinching.

When planting Aug. 15 to Nov. 14, allow 4 weeks from planting to pinching.

^{**}No need to use black cloth between September 1 and February 15 unless lights are used in the same house.

DESCRIPTIONS OF NEW 1955 INTRODUCTIONS

- VESTA Oct. 25. (De Petris) A trim White button Pompon for summer and early fall flowering. Best during the long day period of the year June thru August.
- CREAM HALO Nov. 1. (Avon Valley) Excellent cream colored sport of Halo with the same recommended season of flowering as Halo.
- CREAM SHASTA Nov. 10. (Delworth)
 Beautiful color addition to the Shasta
 group for year round flowering.
- WHITE MEMORIAL Nov. 12. Pure white sport except when grown cold. Fine May to November.
- WHITE TAFFETA Nov. 15. (Knouse & Cruden) Pure white sport of Taffeta.
- ILLINI STARFLOWER Nov. 18. (Univ. of Ill.) Semi-anemone form. A Novelty in white for the retail grower.
- SILVERCREST Nov. 25. Small white formal pompon. Markedly improves the appearance and quality of Snowcrest. Well adapted for flowering November thru March.
- ILLINI PEACE Nov. 25. (Univ. of Ill.) A productive White anemone for Thanks-giving.
- ORWAY Dec. 8 (De Petris) Large white single. An improvement over Yukon in flower quality and growth habit.
- WHITE SNOWDROP Dec. 8. Pure white sport of Snowdrop.
- GOLDFINCH Oct. 25 (De Petris) Small yellow golden button pompon with excellent flower quality. Withstands high temperature well. An outstanding competitor of the variety Sunup for spring, summer and fall flowering.
- IMAMURA YELLOW Oct. 25. Intermediate yellow daisy for early cloth house.
- YELLOW SCULPTURE Nov. 15. (Avon Valley) Lemon yellow sport of Sculpture, as valuable in the year-round program as Sculpture itself.
- MINGO CHIEF Nov. 20. (Brehmer) Bronzy yellow anemone best described as a yellow Yolanda but with a stronger growth habit and heavier production.
- GOLD MEDAL Dec. 1. Small yellow button pompon for October to April flowering.
- YELLOW COTILLION Dec. 5. Lemon Yellow sport of Cotillion.
- YELLOW SATELITE Dec. 10. Yellow sport of Satelite.
- GOLDIE Dec. 10. Deep yellow small pompon. Preferred by some over Yellow Snowcrest.
- JETFIRE Nov. 5. Intermediate flaming red decorative. A color that holds even in high temperatures. Well adapted for spring and fall pot plants grown either as spray or disbud. Outstanding in the cloth house.

- FIREGLEAM Nov. 10. A fiery orange intermediate decorative. An outstandingly brilliant color that holds beautifully. Is fine in pots with partial or no disbudding
- BRONZE PANDORA Nov. 10. (Smith) Bright coral bronze sport of Pandora.
- BARBARA FULLER Nov. 10. (Fairfield) A dark coral red anemone. Dwarf compact growth habit. Excellent for flowering as a pot plant in October, November and December.
- RUBAIYAT Nov. 20. Velvety red intermediate formal pompon. Unequaled for October thru Christmas flowering. Improves Christmas Greeting in color, for and production.
- DK. BRONZE MINUET Nov. 23. A rich deep salmon bronze sport of Br. Minuet.
- **RED HERITAGE** Dec. 1. Salmon red sport of Heritage.
- **ORANGE GALAXY** Dec. 1. A color sport of Galaxy. Color very nearly that of Orange Beauregard.
- RED MINSTREL Dec. 13. (Delworth) A sport of Bronze Minstrel with a lively red glow added. This color is easier to use than that of Br. Minstrel. A quality pompon for November and December.
- TSUKUSHI PINK Oct. 20. Intermediate light pink single for the very early cloth house.
- PARISIENNE Nov. 5. (Delworth) Intermediate shell pirk single. This variety grows and flowers satisfactorily at all seasons where Shasta is satisfactory (late March to November). The color is a close to true pink as exists in the chrysanthemum. The favorite pink single to rotate with Brocade and a color far better than that of Reward.
- CRITERION Nov. 8. Int. pink decorative with a vigorous compact growth habit. A New and valuable year round pink pot plant variety. Almost the equal of Bonnafon DeLuxe in pink. Also a fine cut flower variety for spring and fall. Best grown disbudded.
- HUMDINGER Nov. 10. An intermediate to large formal pompon. Color has been described as a luminous violet purple. A perfectly ideal pot plant type of growth habit. An interesting disbud pot plant for fall, winter and early spring.
- DK. PINK MINUET Nov. 23. A deep pink sport of Minuet.
- IMP. PK. MINSTREL Dec. 13. (Delworth)
 From a designers and retailers standpoint, this is the best of the Minstrels.
 Its color resembles that of Pink Dot and
 it does not deteriorate rapidly with
 maturity. The shade and tone are both
 right. Minstrel had form and substance.
 Imp. Pk. Minstrel has form, substance
 and color.
- LYNDA MC LANE Dec. 25. (McLane) A late pink pompon with a growth habit that does not run into blind growth and a color that is highly acceptable. A much needed variety for the late natural crop.

- SILVER QUEEN Oct. 25. (De Petris) White Fugi mum. Better than Rayonnante. Important in the spring and fall program.
- WHITE MARY GARDEN Nov. 1. White sport of Mary Garden.
- SMITHS CREAM WHITE Dec. 13. (Schneider) A beautiful smooth cream colored sport of Smiths White. Excellent form and good depth of flower.
- **LUYONA** Oct. 25. (De Petris) Large yellow spider mum with quality blooms.
- YELLOW IVANHOE Nov. 1. Golden yellow sport.
- YELLOW CURLY SPIDER Nov. 5. Clear yellow spider mum. Good shipper.
- ANTIQUE Nov. 1. A bronze spider mum for cut flower and pot plant use.
- DELAWARE Nov. 8. A large semi-incurved reddish bronze standard. An outstanding pot plant for fall, winter and spring. The growth habit and the color make this the number one bronze pot plant.
- MRS. EISENHOWER Nov. 18. (De Petris) A vivid golden bronze spider mum with excellent substance and form. Vigorous grower.
- ILL. REGAL An unusual royal purple pompon which is quite striking. A very novel color. Maturing around November 12. It is a pompon of good form.
- ILL. SPRINGTIME A warm rich truly pink single of good shipping qualities. Flowers are placed well on the stem. Hard to beat in its class for year round production. Matures November 12.
- ILL. WAMPUM An attractive bright yellow anemone with unusually high production. Very stiff stems supporting a well placed flower head. Matures November 22.
- WEDDING BELLS (DEPTRIS) An intermediate white pompon with bright green eye. Flowers have outstanding substance and are produced on well formed sprays with rigid pedicles. A very useful 13 week variety for extending the season. Flowers normally around Dec. 5.
- SNOWFLAKE (DePETRIS) A free growing intermediate white pom with cream center good form and spray formation. Exceptionally good shipping qualities. Its uniform response makes this a very valuable variety for extending the season through February. Matures Dec. 5.
- RED ENCHANTRESS (KAWACHI) A vivid red sport of Enchantress which will make a valuable addition to the 13 week class. Should be very useful for extending through the Christmas holidays and later. Matures Dec. 5.
- YELLOW ENCHANTRESS (KAWACHI)
 A lemon yellow sport of Enchantress,
 responds uniformly to lights and can be
 used December through February for
 extended blooming. Matures Dec. 5.

NEW GARDEN VARIETIES 1955

CRYSTAL MAID A creamy white pompon flowering September 12. Very compact growth with an abundance of showy flowers. Another good addition to spring garden pots or as a showy border plant.

GARDENIA Large white decorative type blooms with creamy white center. Flowers are very double measuring 3½" or more in diameter. A very profuse blooming variety combining extreme vigor and strong stems with excellent foliage An outstanding large white mum blooming September 25. Possessing beautiful large form and a sturdy semi-dwarf growth habit. An outstanding garden mum.

ALPENA Glowing red large pompon type garden mum blooming about September 25th. Blooms are full double possessing very good substance. They are carried on erect sprays on bushy medium dwarf plants with very good foliage. An excellent red early garden mum derived from the Rubellum strains which combines good color with vigor and hardiness.

IRON MOUNTAIN An intriguing deep red pompon changing to a reddish rust as the flower matures. A plant that can easily be displayed well as a showy border or useful as a home cut flower. Matures around October 1.

SPODE A very perfectly incurved flower attaining a size of 4" when disbudded. Blooms are very full and round. The color is clear luminous yellow. Compact bushy habit with strong upright stems. A very free flowering large mum suitable for garden or pots either Fall or Spring. Normal blooming date is the first week in October. Its large round yellow blooms and compact bushy habit makes this variety an ideal pot mum.

NORTHERN QUEEN Large double flowered pink decorative variety with center shading to deep pink. A very durable and lasting flower. Sturdy medium dwarf growth habit with very strong stems. Beautiful shiny glossy foliage reflecting its Arctic heritage. An excellent large pink garden mum which blooms the first week in October. SONNY A true pink clean growing pompon that shades well in the Cloth House and holds its color. Stiff stems with rigid pedicles. Makes a fine addition to the garden variety cut flower class. Matures October 1.

HONEYSWEET Early large golden yellow incurved. Can be flowered early enough for the garden. Will make a full compact pot plant which appears to be heat tolerant under the shade cloth. Matures October 15.

VALIANT Large light yellow incurved flowering October 15. Luxuriant dark green foliage with short internodes. Makes an attractive pot plant mid March to January.

GOLDFINCH Vigorous growing solid type pompon producing lively looking flower heads on clean sturdy stems. Better than average in its production. Flowers October 15.



One of many houses devoted to the production of cultured Mum cuttings.

White Pompoms, Decoratives Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
variety			Description	Classification
		Veek Varieties		70.4
Ostosa	June 20	Sept. 25	Int. Pompon	P-1 S-1
Sept. Morn White Wonder	June 24 June 24	Oct. 1 Oct. 1	Int. Single Int. Pompon	S-1 S-1
Chris. Columbus	June 24	Oct. 1	Int. Decorative	S-3
Ciris, Columbus	ounc at	000. 1	and Decording	5 0
	7 V	Veek Varieties		
Avalanche	June 24	Oct. 5	Large Decorative	S-1
White Cloud	June 24	Oct. 5	Large Decorative	S-1
Horizon Marshmallow	June 24 June 24	Oct. 5 Oct. 5	Int. Pompon	S-2 P-2
Maestro	June 24 June 24	Oct. 10	Int. Single Int. Pompon	S-1
Renown	June 24	Oct. 10	Small Single	S-1
Classic	June 24	Oct. 10	Int. Pompon	S-2
Silverplate	June 24	Oct. 12	Int. Decorative	S-2
	8 V	Veek Varieties		
Silver Ball	July 10	Oct. 15	Large Pompon	S-4
Calif. White Daisy	· ·			
(Kimoto's White)	July 10	Oct. 15	Int. Single	S-2
Irene	July 10	Oct. 15	Small Pompon Small Pompon	S-2
Norona Pristine	July 10 July 10	Oct. 15 Oct. 20	Int. Pompon	S-2 S-3
Minong	July 10	Oct. 20	Small Pompon	S-1
Silvertone	July 15	Oct. 24	Int. Single	P-2
	0. W	Veek Varieties		
Vesta	July 15	Oct. 25	Button Pompon	P-1
Popcorn	July 15	Oct. 25	Int. Pompon	S-3
White Popcorn	July 15	Oct. 25	Int. Pompon	S-2
Keepsake	July 15	Oct. 25	Int. Pompon	S-2
Pinocchio	July 15	Oct. 25	Small Pompon	S-3
Songster	July 15	Oct. 25	Int. Pompon	S-3
Cottontop Shooting Star	July 20	Oct. 25 Oct. 25	Small Pompon	S-1 S-1
*Granite State	July 20 July 15	Oct. 25	Int. Single Small Semi Incurved	S-3
Arcadia	July 20	Oct. 28	Int. Pompon	S-2
Silver Cloud	July 20	Nov. 1	Int. Single	\tilde{P} -2
Halo	July 20	Nov. 1	Int. Single	S-3
Cream Halo	July 20	Nov. 1	Daisy	P-1
Sea Gull White Doty	July 20 July 20	Nov. 1 Nov. 1	Int. Pompon Large Pompon	S-3 S-3
white boty			Large Fompon	5-3
Eucadom		Week Varieties Nov. 5	Int Cincle	P-2
Freedom Whitetop	July 20 July 20	Nov. 5 Nov. 5	Int. Single Int. Decorative	P-2 P-2
Madonna	July 20	Nov. 5	Int. Pompon	S-2
Kolowa	July 20	Nov. 5	Int. Single	S-1
Encore	July 20	Nov. 5	Int. Pompon	S-4
White Anemone	July 20	Nov. 5	Large Anemone	S-2
White Mensa	July 20	Nov. 5 Nov. 8	Large Single	S-2
Rev. Bushnell Moonglow	July 19 July 20	Nov. 8	Int. Pompon Int. Pompon	S-2 S-2
**Pacesetter	July 20	Nov. 10	Int. Single	P-2
Illini Igloo	July 20	Nov. 10	Int. Pompon	P-3
Shasta	July 20	Nov. 10	Large Anemone	S-4
Cream Shasta	July 20	Nov. 10	Anemone	P-1
Dynamo	July 20	Nov. 10	Int. Pompon	S-2
Vesper Nagona (Calif. White Mensa)	July 20 July 20	Nov. 10 Nov. 10	Int. Pompon Int. Single	S-2 S-1
**Little America	July 20	Nov. 10	Int. Anemone	S-3
Illini Snowdrift	July 20	Nov. 12	Novelty-Int. Decorative	
Matchless	July 22	Nov. 12	Int. Pompon	S-2
White Memorial	July 22	Nov. 12	Int. Anemone	S-1
Wh. Frieda	July 22	Nov. 15	Anemone	S-3
White Taffeta	July 22	Nov. 15	Int. Decorative	P-1
Carlintona		Week Varieties	Towns Ct. 4	9.0
Sculpture White Norma	July 22 July 22	Nov. 15 Nov. 15	Large Single Large Anemone	S-2 S-2
Eskimo	July 22	Nov. 15	Int. Single	S-2 S-1
	J 002J 201	21011.20	and Danger	D 1

^{**}Also recommended for Pot Plants

White Pompoms, Decoratives Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
, canada	11 W	Veek Varieties		
Snowflurry Illini Starflower Seafoam **L. I. Beauty Highbrow Nevada Priscilla Illini Bountiful Crystal Beauty Paramount	July 22 July 22 July 25 July 28 July 25	Nov. 15 Nov. 18 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 23 Nov. 23 Nov. 23	Small Pompon Semi Anemone Int. Pompon Large Anemone Int. Decorative Int. Anemone Int. Pompon Int. Pompon Int. Pompon Int. Pompon Int. Pompon	S-2 P-1 S-2 S-3 S-3 S-2 S-3 S-1 S-2 S-3
	12 V	Veek Varieties		
Belray Wh. Yuletide **White Lady Silvercrest Illini Peace White Valencia Cordova Fortune Monarch Carrara	Aug. 5 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 5 Aug. 5 July 28 Aug. 10	Nov. 24 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 28 Nov. 30 Dec. 1 Dec. 1 Dec. 3	Large Pompon Med. Pompon Large Anemone Formal Pompon Anemone Large Single Int. Pompon Int. Pompon Int. Decorative Int. Decorative	S-3 S-4 P-3 P-1 P-1 S-3 S-2 S-3 S-1 P-3
		Veek Varieties		
Wh. Enchantress (New) Cameo Acclaim Swan Spangles Cotillion Orway Snowdrop White Snowdrop Illini Starlet Imp. White Supreme Snowflake Snow Queen Yukon Illini Starlet Satellite	Aug. 10 Aug. 10 Aug. 10 Aug. 1 Aug. 10 Aug. 1 Aug. 10 Aug. 1 Aug. 10	Veek Varieties Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 8 Dec. 8 Dec. 8 Dec. 10	Large Anemone Int. Decorative Int. Pompon Large Anemone Int. Pompon Small Pompon Single Small Pompon Button Pompon Int. Anemone Large Anemone Int. Pompon Int. Pompon Int. Pompon Int. Single Int. Anemone Int. Pompon	P-2 S-3 S-2 S-1 S-2 S-2 P-1 S-2 P-2 P-2 P-1 S-2 S-2 S-2
	14 \	Week Varieties		
Trenton Snowcrest Silversmith Cream Snowcrest Snowcap Garza Heirloom Wedding Bells	Aug. 10 Aug. 10 Aug. 10 Aug. 10 Aug. 10 Aug. 10 Aug. 10	Dec. 15	Int. Pompon Small Pompon Int. Decorative Small Pompon Large Pompon Int. Anemone Int. Decorative Small to Med. Pompon	P-2 S-3 S-4 P-3 S-3 S-3 S-2 P-1
Muto's White	Aug. 15	Dec. 25	Large Pompon	S-4
Revelation Snow Talmeda Illini Snowbound	Aug. 15 Aug. 10 Aug. 15 Aug. 15	Dec. 25 Dec. 25 Jan. 5 Jan. 5	Int. Decorative Int. Pompon Int. Pompon Int. Decorative	S-4 S-3 P-2 P-3

Yellow Pompoms, Decoratives Singles & Anemones

6 Week Varieties

	0 1	CCIL VALICATOR		
Yel. Chris. Columbus	June 24	Oct. 1	Int. Decorative	S-3
Moonlight	June 24	Oct. 1	Int. Decorative	P-3
Honeycomb	June 24	Oct. 1	Small Pompon	S-1

^{**}Also recommended for Pot Plants

Yellow Pompoms, Decoratives Singles & Anemones

	•			
Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
		7 Week Varieties		
Polaris Chas. Nye	June 24 June 24 June 24	Oct. 5 Oct. 5 Oct. 5	Int. Single Int. Decorative Int. Single	S-2 S-2 S-1
Garland Yellow Spoon	June 24	Oct. 5	Int. Spoon	S-2
Lee Powell	June 24	Oct. 10	Large Decorative	P-3
Goldrush	June 24 June 24	Oct. 10 Oct. 10	Small Single Small Pompon	S-2 S-1
Treasure Bright Forecast	June 24	Oct. 10	Small Pompon	S-2
Lemonade	June 24	Oct. 12	Int. Decorative	S-2
Sweepstake	June 24	Oct. 12	Small Pompon	S-1
		8 Week Varieties		
Yel. Irene	July 10	Oct. 15	Small Pompon	S-2
Arlora	July 10	Oct. 15	Int. Decorative	P-2
Sundew Creampuff	July 10 July 5	Oct. 15 Oct. 20	Decorative Int. Single	P-0 P-2
Moondrift	July 10	Oct. 20	Int. Single	P-3
Rodell Imp.	July 10	Oct. 20	Small Pompon	S-3
		9 Week Varieties		
**Ordalia	July 12	Oct. 25	Large Decorative	P-2
Starlight	July 12 July 20	Oct. 25 Oct. 25	Large Single Large Decorative	P-2 S-4
Golden Herald Goldfinch	July 20	Oct. 25	Small Button	P-0
Gold Coast	July 20	Oct. 25	Int. Pompon	S-4
Red Dot	July 20 July 20	Oct. 25 Oct. 25	Med. Pompon Int. Pompon	S-3 S-2
Yellow Dot Cream Dot	July 20	Oct. 25	Int. Pompon	S-1
Imamura	July 20	Oct. 25	Int. Daisy	S-1
Yel. Firebird	July 20 July 20	Oct. 25 Oct. 28	Med. Decorative Int. Single	S-2 P-2
Aztec Sunup	July 20	Oct. 28	Small Pompon	S-2
Yellow Arcadia	July 20	Oct. 28	Int. Pompon	S-2
Sauterne	July 20 July 20	Oct. 30 Oct. 30	Int. Single Int. Single	P-2 P-2
Gondola Mary Gold	July 20	Nov. 1	Med. Pompon	S-4
Mary Hall	July 20	Nov. 1	Int. Pompon	S-4
Yellow Halo	July 20 July 20	Nov. 1 Nov. 1	Int. Single	P-3 S-3
Schn. Yel. Daisy Yellow Doty	July 15	Nov. 1	Int. Single Large Pompon	S-3 S-2
Starbright	July 15	Nov. 1	Large Single	S-3
Yellow Daisy Yel. Sea Gull	July 20 July 20	Nov. 1 Nov. 1	Int. Single Int. Pompon	S-2 S-2
Yellow Cassandra	July 20	Nov. 1	Int. Pompon	S-1
Sunray	July 20	Nov. 3	Int. Single	S-3
Honeymoon	July 20	Nov. 4	Large Single	P-2
		10 Week Varieties		
Barcarole	July 20 July 20	Nov. 5 Nov. 5	Int. Pompon	S-3
Brigadoon Crescendo	July 20	Nov. 5	Int. Single Large Pompon	S-2 S-3
Constellation	July 20	Nov. 5	Int. Decorative	S-3
Pixie	July 20 July 20	Nov. 5 Nov. 5	Small Pompon	S-2
Nuggets Golden Mensa	July 15	Nov. 10	Small Pompon Large Single	S-2 S-1
Yellow Shasta	July 25	Nov. 10	Large Anemone	S-4
Yellow Nagona (Calif. Yel. Mensa) Ill. Gold Cup	July 20 July 25	Nov. 10 Nov. 10	Int. Single Large Pompon	S-1 S-1
Yel. Beauty	July 25	Nov. 10	Large Pompon	S-1
		11 Week Varieties		
Princeton	July 28	Nov. 15	Int. Decorative	S-2
Thorobred	July 28	Nov. 15	Large Single	S-1
Yel. Sculpture Golden Chord	July 28 July 28	Nov. 15 Nov. 15	Large Single Int. Pompon	P-1 S-3
Forty-Niner	July 28	Nov. 15	Int. Pompon	S-4
Yellow Fellow Susanne Miller	July 28	Nov. 15	Int. Decorative	S-2
Tacoma	July 28 July 28	Nov. 15 Nov. 15	Large Anemone Large Pompon	S-2 P-3
**Also recommended for Pot Plants			G	

^{**}Also recommended for Pot Plants

Yellow Pompoms, Decoratives Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
	11 W	eek Varieties	-	
Illini Brave Yel. L. I. Beauty Mingo Chief Yel. Highbrow Lollipop	July 28 Aug. 1 Aug. 1 Aug. 1 Aug. 1	Nov. 16 Nov. 20 Nov. 20 Nov. 20 Nov. 20	Small Pompon Large Anemone Anemone Int. Decorative Int. Pompon	S-1 S-2 P-1 P-3 S-3
Pippin Klondike Bojangles Yellow Nevada Illini Sunspot	Aug. 1 Aug. 1 Aug. 1 July 25 Aug. 1	Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20	Int. Pompon Int. Pompon Int. Single Int. Anemone Large Pompon	S-2 S-3 S-2 S-2 P-3
Yellow Paramount Yellow Rolinda	Aug. 1 Aug. 1	Nov. 23 Nov. 23	Int. Pompon Med. Anemone	P-2
Tellow Rolling			Med. Anemone	S-3
Illini Wampum		eek Varieties	A	
Goldenrod Illini Gold Yellow Priscilla	Aug. 5 Aug. 5 Aug. 5 Aug. 5	Nov. 25 Nov. 25 Nov. 25 Nov. 25	Anemone Int. Pompon Int. Pompon Med. Decorative	P-1 S-2 S-2 S-1
Goldsmith Highlander Sunnyside	Aug. 5 Aug. 5 Aug. 5 Aug. 5	Nov. 25 Nov. 25 Nov. 25 Nov. 25	Large Decorative Int. Decorative Int. Pompon	S-3 S-2 S-3
Champagne Yellow Valencia Golden Jane	July 28 Aug. 5 Aug. 5	Nov. 25 Nov. 28 Nov. 28	Int. Single Large Single Large Single	S-1 S-2 S-2
Yellow Cordova Yellow Fortune Omega Nosegay	Aug. 5 Aug. 5 Aug. 5 July 28	Nov. 30 Dec. 1 Dec. 1 Dec. 1	Int. Pompon Int. Pompon Int. Pompon Small Pompon	S-2 P-2 S-3 P-3
Yel. Galaxy Gold Medal	Aug. 5 Aug. 5	Dec. 1 Dec. 1	Int. Single Small Button	P-3 P-1
Yellow Acclaim (New)	Aug. 10	Veek Varieties Dec. 5	Large Pompon	P-2
Golden Acciaint (New) Golden Harvest Yel. Cotillion Brandywine Jack-Pot	Aug. 10 Aug. 10 Aug. 1 Aug. 10	Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 5	Small Pompon Small Pompon Int. Decorative Large Decorative	S-1 P-1 S-1 S-2
Symmetry Yel. Enchantress Yel. Swan Yellow Cameo	Aug. 10 Aug. 10 Aug. 1 Aug. 1	Dec. 5 Dec. 5 Dec. 5 Dec. 5 Dec. 5	Int. Pompon Large Anemone Large Anemone Int. Decorative	P-3 P-1 S-1 S-2
Yel. Spangles Cinderella Goldtone	Aug. 10 Aug. 10 Aug. 10	Dec. 5 Dec. 5 Dec. 5	Int. Pompon Int. Single Int. Single	P-3 S-2 S-1
Yel. Satelite Imp. Yel. Supreme Goldie Challenge	Aug. 10 Aug. 10 Aug. 10 Aug. 5	Dec. 10 Dec. 10 Dec. 10 Dec. 12	Int. Pompon Large Anemone Small Pompon Int. Single	P-1 S-2 P-1 S-1
Corsair	Aug. 10	Dec. 12	Large Pompon	S-2
37.11		eek Varieties	Total To	G 0
Yellow Riviera Yel. Snowcrest Yel. Garza Sequin	Aug. 10 Aug. 5 Aug. 5 Aug. 5	Dec. 15 Dec. 15 Dec. 15 Dec. 15	Int. Decorative Small Pompon Int. Anemone Small Pompon	S-2 S-2 S-2 S-1
Shamrock December Gold Sunkist	Aug. 10 Aug. 5 Aug. 10	Dec. 15 Dec. 15 Dec. 20	Large Decorative Int. Decorative Int. Single	S-3 S-2 S-1
Vibrant Revelry Gold Seal	Aug. 10 Aug. 10 Aug. 10	Dec. 20 Dec. 20 Dec. 20	Int. Decorative Int. Decorative Int. Single	S-3 S-2 P-3
Sunrise Golden Anniversary Yellow Revelation	Aug. 10 Aug. 10 Aug. 15	Dec. 20 Dec. 24 Dec. 25	Int. Pompon Small Pompon Med. Pompon	S-2 S-2 S-3
		eek Varieties		
Siren Yuleflame Yellow Snow Ul. Vel. Snowbound	Aug. 15 Aug. 15 Aug. 10	Dec. 25 Dec. 25 Dec. 25	Int. Decorative Large Decorative Int. Pompon	S-3 S-3 S-3
Yellow Snow Ill. Yel. Snowbound **Also recommended for Bet Blo	Aug. 10 Aug. 15	Dec. 25 Jan. 5		S-3 P-3

^{**}Also recommended for Pot Plants

Bronze & Red Pompoms Decoratives, Singles & Anemones

Variety	Pinch Date	Flowering Date	Description	Price Classification
	6 W	eek Varieties		
W. P. Snyder	June 24	Oct. 1	Int. Decorative	S-1
Marionette	June 24	Oct. 1	Small Pompon	S-1
Mogul	June 24	Oct. 1	Small Decorative	P-3
Bonfire	June 24	Oct. 1	Int. Pompon	S-1
	7 W	eek Varieties		
Avalon	June 24	Oct. 5	Small Pompon	P-3
Remembrance	June 24	Oct. 5	Int. Decorative	S-1 S-1
Mona	June 24 June 24	Oct. 5 Oct. 5	Small Pompon Int. Decorative	S-1 S-1
Huntsman	June 24 June 24	Oct. 5	Int. Decorative	S-1
Firecracker Regina	June 24	Oct. 5	Large Informal	P-1
Buckeye	June 24	Oct. 8	Int. Pompon	P-2
Panorama	June 24	Oct. 8	Small Pompon	P-3
Red Velvet	June 24	Oct. 10	Int. Decorative	S-1
Bamboo	June 24	Oct. 10 Oct. 10	Small Single Int. Decorative	S-1 P-3
Blueblood	June 24 June 24	Oct. 10	Small Single	S-1
Calico Caravan	June 24	Oct. 10	Int. Decorative	S-1
Caravan Carmine Queen	June 24	Oct. 10	Small Pompon	S-1
Carnival	June 24	Oct. 10	Small Pompon	S-2
Fireside	June 24	Oct. 10	Int. Decorative	S-1
Nokomis	June 24	Oct. 12	Int. Decorative	S-1
Fashion	June 24	Oct. 12 Oct. 12	Med. Decorative	P-3
Nocturne	June 24 June 24	Oct. 12	Small Pompon Int. Single	S-1 P-3
Nytoda Carmelita	June 24	Oct. 12	Int. Decorative	S-1
Witchery	June 24	Oct. 12	Int. Decorative	S-1
Mrs. Du Pont	June 24	Oct. 12	Large Decorative	S-2
Admiral	June 24	Oct. 12	Int. Decorative	S-1
Moonmaid	June 24	Oct. 14	Int. Pompon	P-2
	8 W	Veek Varieties		
Robinhue	June 15	Oct. 15	Int. Decorative	S-1
Red Glow	June 15	Oct. 15	Int. Decorative	S-1
Cocktail	June 15	Oct. 15 Oct. 15	Int. Pompon	P-3 S-1
Rajah Detroiter	July 15 July 15	Oct. 15	Int. Single Small Pompon	S-1 S-1
James Stewart	July 15	Oct. 15	Small Pompon	S-2
Talisman	July 15	Oct. 20	Int. Single	P-2
Adelaide	July 15	Oct. 20	Small Pompon	S-3
Paradise	July 15	Oct. 20	Int. Single	P-2
Jemima Pallatta	July 15	Oct. 20	Large Pompon	S-3
Pallette Br. Mary McArthur	July 15 July 20	Oct. 20 Oct. 23	Int. Single Small Po mpon	P-2 S-1
Di. Mary McArthur	_		Sman Fompon	9-1
Pantan		eek Varieties	Mad Dawn	G 9
Bonton Gaiety	July 20 July 20	Oct. 25 Oct. 25	Med. Pompon Int. Single	S-2 P-2
Firebird	July 20	Oct. 25	Int. Decorative	S-2
Bronze Dot	July 14	Oct. 25	Int. Pompon	S-3
Oct. Bronze	July 20	Oct. 28	Med. Single	S-2
Buckskin	July 20	Oct. 25	Int. Single	S-3
Hilarity	July 25	Nov. 1	Int. Single	P-2
Seneca Firefly	July 14 July 14	Nov. 1 Nov. 1	Int. Decorative Int. Pompon	S-2 S-2
Bronze Daisy	July 15	Nov. 1 Nov. 1	Int. Fompon Int. Single	S-2 S-2
Imp. Br. Daisy (Katoka Red)	July 15	Nov. 1	Int. Single	S-2 S-1
Buccaneer	July 25	Nov. 1	Int. Single	S-2
Red Seneca	July 25	Nov. 1	Int. Decorative	S-2
Br. Buckingham	July 25	Nov. 1	Int. Single	S-1
Navaho Bad Daise	July 25	Nov. 1	Int. Pompon	S-2
Red Daisy Imp. Red Daisy (Adachi Red)	July 15 July 15	Nov. 1 Nov. 1	Int. Single Int. Single	S-2 S-2
Amp. Mcu Daisy (Auacin Mcu)	•		Int. Single	D=2
		Veek Varieties Nov. 5	Int. Pompon	S-1
Compando			Int Pompon	
Comanche Jet Fire	July 25 July 25			
Comanche Jet Fire Flame Glow	July 25 July 25 July 25	Nov. 5 Nov. 5 Nov. 5	Int. Decorative Int. Single	P-1 P-2

^{**}Also recommended for Pot Plants

Bronze & Red Pompoms Decoratives, Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
	10 W	eek Varieties		
Beauregard	July 25	Nov. 5	Int. Pompon	S-3
Butterscotch	July 20	Nov. 5	Int. Pompon	S-2
Cassandra	July 20	Nov. 5	Int. Pompon	S-2
Red Rust Rubicon	July 25 July 25	Nov. 5 Nov. 5	Int. Decorative	S-2
Magician	July 20	Nov. 5	Int. Decorative Large Pompon	S-3 S-2
Bittersweet	July 25	Nov. 5	Int. Single	S-2 S-2
**Gypsy	July 25	Nov. 8	Small Anemone	S-3
Samovar	July 20	Nov. 10	Int. Pompon	S-3
Firegleam	July 20	Nov. 10	Int. Decorative	P-1
Sylvanna Chanticleer	July 19 July 20	Nov. 10 Nov. 10	Int. Single	S-2
Br. Pandora	July 20	Nov. 10 Nov. 10	Large Pompon	S-1 P-1
Chevron	July 25	Nov. 10	Large Decorative Int. Decorative	S-2
The Titan	July 25	Nov. 10	Large Anemone	S-1
Bronze Thyra	July 20	Nov. 10	Int. Pompon	S-1
Barbara Fuller	July 20	Nov. 10	Anemone	P.1
Illini Burma Europa	July 25	Nov. 10 Nov. 10	Large Pompon	P-3
**Copperhead	July 19 July 25	Nov. 10 Nov. 10	Large Single	S-1 S-3
Br. Linda Lou	July 25	Nov. 10	Large Decorative Int. Anemone	S-3 S-2
Br. Tuxedo	July 19	Nov. 10	Large Anemone	S-1
Gold Braid	July 20	Nov. 12	Int. Pompon	S-1
Illini Rye	July 25	Nov. 12	Int. Pompon	P-3
Br. Masterpiece	July 25	Nov. 12 Nov. 12	Int. Pompon	S-2
**Dk. Br. Masterpiece Paragon	July 25 July 25	Nov. 12 Nov. 12	Int. Pompon	S-2 S-3
Illini Tangier	July 25	Nov. 12 Nov. 12	Large Pompon Large Decorative	P-3
**Red King	July 25	Nov. 13	Int. Single	P-2
**Cadet	July 25	Nov. 14	Int. Anemone	P-2
	44 997			
Mrs. Dewey	July 28	eek Varieties Nov. 15	Lougo Cingle	S-2
Shalimar	July 28	Nov. 15	Large Single Int. Anemone	S-2 S-1
Red Princeton	July 28	Nov. 15	Int. Decorative	S-2
Illini Honey	July 28	Nov. 15	Small Pompon	S-1
Illini Redhead	July 28	Nov. 17	Small Pompon	S-1
Illini Warrior	Aug. 1	Nov. 20 Nov. 20	Int. Pompon	S-2
Rubaiyat Legal Tender	Aug. 1 Aug. 1	Nov. 20 Nov. 20	Int. Formal Int. Decorative	P-1 S-2
Rusticon	July 25	Nov. 20	Int. Pompon	S-3
Thelma	Aug. 1	Nov. 20	Int. Pompon	S-2
Bourbon	July 25	Nov. 20	Int. Single	S-1
Carousel	July 25	Nov. 23	Int. Single	S-1
Festival	July 25	Nov. 23 Nov. 23	Int. Single	S-2
Br. Minuet Dk. Br. Minuet	July 28 Aug. 1	Nov. 23	Int. Pompon Int. Pompon	S-2 P-1
**Red Rolinda	July 25	Nov. 23	Int. Anemone	S-2
Illin: Dalama I		eek Varieties	Int. Dames	n o
Illini Redwood Br. Goldsmith	Aug. 5 Aug. 1	Nov. 25 Nov. 25	Int. Pompon Large Decorative	P-2 S-3
Wanakah	July 28	Nov. 25	Int. Single	P-3
Falcon	July 28	Nov. 25	Int. Pompon	S-2
Yolanda	Aug. 1	Nov. 25	Int. Anemone	S-1
Indian Head	July 28	Nov. 28	Large Single	S-2
Apricot Valencia	Aug. 1	Nov. 28	Large Single	S-2
Crimson Valencia Red Heritage	July 28 Aug. 1	Nov. 28 Dec. 1	Large Single Int. Pompon	S-2 P-1
Amberina	Aug. 1 Aug. 1	Dec. 1	Int. Decorative	S-1
Galaxy	Aug. 1	Dec. 1	Int. Single	S-3
Orange Galaxy	Aug. 1	Dec. 1	Int. Single	P-1
	13 We	ek Varieties		
Dazzler	Aug. 1	Dec. 5	Int. Single	S-1
Br. Enchantress	Aug. 5	Dec. 5	Large Anemone	S-1
Red Enchantress	Aug. 5	Dec. 5	Large Anemone	P-1
Debonair	Aug. 10	Dec. 5	Large Pompon	S-2
**Also recommended for Pot Pla	ants			

^{**}Also recommended for Pot Plants

Bronze & Red Pompoms Decoratives, Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification				
	13 Week Varieties							
Mahogany Viking Imp. Br. Supreme Br. Supreme Red Supreme Harlequin Holiday Cavalcade Pageantry Christmas Star Br. Minstrel Red Minstrel Dk. Br. Minstrel	Aug. 1 Aug. 10 Aug. 10 Aug. 5 Aug. 10 Aug. 5 Aug. 10 Aug. 4 Aug. 10 Aug. 10 Aug. 5	Dec. 5 Dec. 10 Dec. 11 Dec. 12 Dec. 13 Dec. 13 Dec. 13	Int. Decorative Large Anemone Large Anemone Large Anemone Int. Decorative Int. Single Med. Pompon Int. Pompon Int. Single Int. Pompon	S-1 S-2 S-1 S-1 S-2 S-1 S-1 S-3 S-2 P-1 P-3				
Bronze Riviera **Claret Topaz Christmas Greeting Sarong Merrymaker Poinsettia	Aug. 15 Aug. 5 Aug. 15 Aug. 15 Aug. 15 Aug. 5 Aug. 15 Aug. 15	Dec. 15 Dec. 20 Dec. 20	Int. Decorative Int. Single Large Single Int. Decorative Int. Single Int. Single Large Single	S-2 S-1 S-1 S-3 S-2 S-3 S-2				

Pink Pompoms, Decoratives Singles & Anemones

		6 Week Varieties				
Early Wonder	June 24	Oct. 1	Int. Pompon	S-1		
Spellbound	June 24	Oct. 1	Int. Decorative	S-3		
7 Week Varieties						
Petrisian Mauve	June 24	Oct. 5	Int. Pompon	P-1		
Petrisian Pink	June 24	Oct. 5	Int. Pompon	P-1		
Petrisian Rose	June 24	Oct. 5	Int. Pompon	P-1		
Courtier	June 24	Oct. 10	Int. Decorative	S-1		
Dream Girl	June 24	Oct. 10	Int. Pompon	S-1		
Ponca	June 24	Oct. 10	Small Decorative	S-1		
Argonne	June 24	Oct. 10	Int. Pompon	S-1		
Lassie	June 24	Oct. 10	Int. Decorative	S-1		
Serenade	June 24	Oct. 10	Int. Single	S-1		
Orchid Spoon	June 24	Oct. 10	Int. Spoon	S-1		
Joybringer	June 24	Oct. 10	Int. Pompon	S-2		
Brigadier	June 24	Oct. 10	Int. Decorative	S-1		
Sweetheart	June 24	Oct. 10	Int. Single	S-1		
Allegro	June 24	Oct. 12	Small Decorative	S-1		
Masquerade	June 24	Oct. 12	Small Pompon	S-1		
Ronnie	June 24	Oct. 12	Small Pompon	S-1		
Salute	June 24	Oct. 12	Small Single	S-1		
Adagio	June 24	Oct. 12	Int. Pompon	S-1		
Lavender Lady	June 24	Oct. 12	Int. Decorative	S-1		
Sonnet	June 24	Oct. 14	Int. Pompon	P-2		
Betty	June 24	Oct. 14	Int. Decorative	S-1		
		8 Week Varieties				
Fairyland	July 15	Oct. 15	Int. Decorative	P-2		
Mayfair	July 15	Oct. 15	Int. Single	P-2		
Jester	July 15	Oct. 15	Int. Single	P-2		
Citation	July 15	Oct. 15	Int. Pompon	P-2		
Enterprise	July 15	Oct. 15	Int. Pompon	P-3		
Eliz. Hood	July 15	Oct. 15	Int. Pompon	P-3		
Jewell	July 15	Oct. 15	Small Pompon	S-2		
Tsukushi Pink	July 15	Oct. 20	Int. Single	S-1		
Mirth	July 15	Oct. 20	Int. Single	P-2		
Carolyn Yosick	July 15	Oct. 20	Int. Pompon	S-3		
Pink Sprite	July 18	Oct. 23	Small Pompon	S-1		
## A 1						

^{**}Also recommended for Pot Plants

Pink Pompoms, Decoratives Singles & Anemones

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
	8 W	eek Varieties		
Mary McArthur	July 14	Oct. 23	Small Pompon	S-2
Capt. Cook	July 18	Oct. 23	Med. Pompon	S-3
Prelude	July 20	Oct. 24	Int. Single	P-2
	9 W	eek Varieties		
Pinkette	July 20	Oct. 25	Int. Pompon	P-2
Vogue	July 20	Oct. 25	Large Single	P-2
Edith Roberts	July 15	Oct. 25	Small Pompon	S-1
Reward	July 20	Oct. 25	Int. Single	S-3
Pink Dot Jessie	July 20 July 20	Oct. 25 Oct. 25	Int. Pompon	S-4
Betty Rose	July 15	Oct. 25	Int. Pompon Large Anemone	S-2 S-1
Oct. Pink	July 20	Oct. 25	Int. Single	S-1 S-2
Bluechip	July 20	Nov. 1	Int. Decorative	P-2
Pk. Calif. Daisy	* 1 00	37 4		
(W. H. Buckingham)	July 20	Nov. 1 Nov. 1	Int. Single	S-2
Rainbow Ballerina	July 20 July 20	Nov. 1	Int. Single Int. Single	P-3 S-2
Lillian Doty	July 20	Nov. 1	Large Pompon	S-2 S-2
Lotus	July 20	Nov. 3	Int. Pompon	P-2
Tempo	July 20	Nov. 3	Int. Decorative	P-2
	10 W	Veek Varieties		
Parisienne	July 22	Nov. 5	Int. Single	P-1
Dreamboat	July 22	Nov. 5	Int. Pompon	S-2
Dark Bulkeley	July 20	Nov. 8	Int. Pompon	S-2
**Portrait Criterion	July 20 July 22	Nov. 8 Nov. 8	Large Decorative Int. Decorative	P-2 P-1
Pennant	July 25	Nov. 10	Int. Decorative	P-2
**Cover Girl	July 25	Nov. 10	Int. Anemone	P-2
Nobility	July 25	Nov. 10	Int. Single	P-2
Pandora	July 25	Nov. 10	Large Decorative	S-2
Humdinger **Thyra	July 25 July 25	Nov. 10 Nov. 10	Int. to large Formal Int. Pompon	P-1 S-2
Soprano	July 20	Nov. 10	Large Single	S-2 S-2
Linda Lou	July 25	Nov. 10	Int. Anemone	S-3
Dark Linda Lou	July 25	Nov. 10	Int. Anemone	S-2
Tuxedo Miss Clarie do	July 20 July 25	Nov. 10 Nov. 11	Large Anemone	S-1
Miss Clarinda Illini Regal	July 25 July 25	Nov. 12	Med. Pompon Small Pompon	P-3 P-1
**Masterpiece	July 25	Nov. 12	Int. Pompon	S-3
Rose Masterpiece	July 25	Nov. 12	Int. Pompon	S-2
Salmon Masterpiece	July 25	Nov. 12	Int. Pompon	S-2
Memorial	July 25	Nov. 12	Int. Anemone	S-2
		Veek Varieties		
Taffeta	July 25	Nov. 15	Int. Decorative	S-3
Carole Dark Norma	July 25 July 25	Nov. 15 Nov. 15	Int. Anemone Large Anemone	P-2 S-2
Illini Springtime	July 25	Nov. 15	Int. Pompon	P-1
Orchid Beauty	July 25	Nov. 15	Int. Anemone	S-1
Brocade	July 22	Nov. 15	Int. Single	S-2
Frieda	July 25	Nov. 15	Large Anemone	S-3
Arbutus	July 20	Nov. 15 Nov. 20	Int. Pompon	P-3
**Polka Nugano	July 25 July 25	Nov. 20 Nov. 20	Int. Anemone Int. Pompon	P-2 P-2
Grand Slam	July 28	Nov. 20	Large Single	S-2
Almega	July 28	Nov. 20	Large Pompon	P-3
Vivacious Lady	July 25	Nov. 20	Int. Spoon	S-1
Evening Star	July 28	Nov. 20	Int. Anemone	P-3
Pink L. I. Beauty Pinky	July 28 July 25	Nov. 20 Nov. 20	Large Anemone Int. Decorative	S-2 S-1
Dk. L. I. Beauty	July 28	Nov. 20	Large Anemone	P-3
Dk. Pk. Majorette	July 28	Nov. 20	Int. Anemone	P-2
**Majorette	July 28	Nov. 20	Int. Anemone	S-1
Minuet	Aug. 1	Nov. 23	Int. Pompon	S-3
Dk. Pk. Minuet	Aug. 1	Nov. 23 Nov. 23	Int. Pompon	P-1 P-2
Illini Formal	Aug. 1 Aug. 1	Nov. 23	Int. Pompon Int. Pompon	P-1 P-2

^{**}Also recommended for Pot Plants

Pink Pompoms, Decoratives Singles & Anemones

Wouldto	Normal Pinch Date	Flowering Date	Description	Price Classification
Variety			Description	Classification
Pink Cloud		Week Varieties Nov. 25	Int. Decorative	P-2
Princess	Aug. 1 Aug. 1	Nov. 25	Small Pompon	S-2
Hasegawa Pink	Aug. 1	Nov. 25	Int. Single	S-2
**Beautiful Lady	Aug. 1	Nov. 25	Large Anemone	S-3
Valencia	Aug. 1	Nov. 28	Large Single	S-2
Dark Valencia Dubonnet Valencia	Aug. 1 Aug. 1	Nov. 28 Nov. 28	Large Single Large Single	S-3 S-3
Orchid Valencia	Aug. 1	Nov. 28	Large Single	S-1
Salmon Valencia	Aug. 1	Nov. 28	Large Single	\tilde{S} - $\bar{2}$
Heritage	Aug. 5	Dec. 1	Int. Pompon	S-2
	13	Week Varieties		
Enchantress	Aug. 5	Dec. 5	Large Anemone	S-2
Dark Enchantress	Aug. 1	Dec. 5	Large Anemone	S-2
Argyle Debutante	Aug. 10 Aug. 10	Dec. 10 Dec. 10	Small Pompon Int. Single	P-2 S-3
Imp. Dk. Supreme	Aug. 10	Dec. 10	Large Anemone	S-3 S-2
Ruffled Supreme	Aug. 10	Dec. 10	Large Decorative	\tilde{S} - $\bar{2}$
Minstrel	Aug. 15	Dec. 13	Int. Pompon	S-3
Lt. Pk. Minstrel	Aug. 15	Dec. 13	Int. Pompon	S-3
Dk. Pk. Minstrel Imp. Pk. Minstrel	Aug. 15 Aug. 15	Dec. 10 Dec. 10	Int. Pompon Int. Pompon	P-1 P-1
	9	Week Varieties	,	
Riviera	Aug. 10	Dec. 15	Int. Decorative	S-3
Dk. Riviera	Aug. 10	Dec. 15	Med. Decorative	S-3
Serrated Riviera	Aug. 10	Dec. 15	Int. Decorative	P-3
Coronet	Aug. 15	Dec. 15	Int. Single	S-1
Rosalind Defiance	Aug. 15 Aug. 15	Dec. 20 Dec. 20	Int. Single Int. Decorative	S-2
Medallion	Aug. 15	Dec. 20	Int. Pompon	S-2 S-2
Rose Medallion	Aug. 15	Dec. 20	Int. Pompon	P-3
Pk. Treas. Is.	Aug. 15	Dec. 20	Med. Decorative	S-3
Lynda McLane	Aug. 15	Dec. 25	Int. Pompon	P-1
	White	e Standards		
	Q	Week Varieties		
Silver Sheen	July 10	Oct. 20	Int. Incurved	C a
White Chief	July 10	Oct. 20	Int. Incurved	S-3 S-2
**Christina	July 12	Oct. 23	Small Incurved	S-2
	9	Week Varieties		
Nightingale	July 20	Oct. 25	Spider-Chartreuse Ctr	. S-2
**Granite State	July 20	Oct. 25	Small Semi-Incurved	S-3
Ambassador **Wilson's White	July 20 July 20	Oct. 25 Nov. 1	Int. Semi-Incurved	S-2
Albatross	July 20	Nov. 1	Int. Incurved Int. Incurved	S-2 S-4
Snow White	July 20	Nov. 1	Large Incurved	S-3
	10	Week Varieties		
Betsy Ross	July 20	Nov. 5	Large Incurved	S-3
Giant Betsy Ross	July 20	Nov. 5	Large Incurved	S-4
**Ind. White	July 20	Nov. 5	Int. Incurved	S-4
**Richard Mandel Jean Elizabeth	July 20 July 25	Nov. 5 Nov. 5	Small Incurved	S-2
Crystal Queen	July 25	Nov. 10	Large Semi-Incurved Large Semi-Incurved	S-3 P-3
White Pockett	July 20	Nov. 10	Large Incurved	S-2
Monument	July 25	Nov. 10	Int. Incurved	S-3
White Fern Edwards	July 25	Nov. 10	Med. Incurved	S-3
Crystal Queen Mrs. Iwata	July 25 July 25	Nov. 10 Nov. 10	Large Incurved Med. Incurved	P-3 P-1
		Week Varieties	area, anour you	F-1
Sterling	July 25	Nov. 10	Lorgo Inguiro	C 0
**Marketeer	July 28	Nov. 10 Nov. 18	Large Incurved Int. Semi-Incurved	S-2 S-3
Mefo	July 28	Nov. 20	Large Incurved	S-3 S-4
**Also recommended for Pot Plants				~ .
The state of the s	Price Classifica	tion Translated on Page 28		

White Standards

Variety	Normal Pinch Date	Flowering Date	Description	Price Classification
	11 W	eek Varieties		
Cream Mefo **White Frick Indiana Market White Peter John	July 28 July 28 July 28 July 28	Nov. 20 Nov. 20 Nov. 20 Nov. 23	Int. Incurved Int. Incurved Int. Incurved Med. Reflexed	S-2 S-2 S-1 S-3
	12 W	eek Varieties		
Chattanooga December Glory **Margaret Moeller	Aug. 1 Aug. 5 Aug. 5	Nov. 25 Dec. 1 Dec. 3	Large Incurved Int. Incurved Int. Incurved	S-3 S-4 S-3
	13 W	Veek Varieties		
December White White Mistletoe Snowline Smith's White Smiths Cream White	Aug. 5 Aug. 5 Aug. 5 Aug. 10 Aug. 10	Dec. 5 Dec. 5 Dec. 10 Dec. 13 Dec. 13	Int. Incurved Int. Incurved Large Incurved Int. Semi-Incurved Semi-Incurved	S-2 S-2 S-2 S-4 P-1

Yellow Standards

	8 Wee	ek Varieties		
Honeysweet **Gold Lode Celestra Harvest Golden Valiant **Mrs. Kidder Butterball **Blazing Gold	July 15 July 10 July 20	Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 20 Oct. 20 Oct. 23	Large Incurved Int. Reflexed Small Semi-Incurved Med. Incurved Large Incurved Int. Incurved Int. Semi-Incurved	P-0 S-2 S-2 S-1 P-0 S-3 S-2 S-4
Add the a see		ek Varieties		
**Smith's Superlative Yellow Ambassador **Yellow Bergen **Sunglow **Golden Glory Good News Yellow Albatross Yellow Ivanhoe	July 15 July 20 July 15 July 20 July 20 July 20 July 20 July 20	Oct. 25 Oct. 25 Oct. 25 Oct. 25 Nov. 1 Nov. 1 Nov. 1 Nov. 1	Int. Semi-Incurved Int. Semi-Incurved Int. Incurved Int. Incurved Int. Incurved Int. Incurved Int. Incurved Small Incurved	S-1 S-2 S-2 S-2 S-2 S-4 P-1 P-1
	10 We	ek Varieties		
Imp. Ind. Yellow **Ind. Yellow **Dk. Ind. Yel. (Pots) Yellow Queen Jamboree **Yellow Beauty Yellow Pockett Yellow Monument **Honey Dew	July 25 July 20 July 25 July 22	Nov. 5 Nov. 5 Nov. 5 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10	Int. Incurved Int. Incurved Int. Incurved Large Semi-Incurved Int. Incurved Small Incurved Large Incurved Int. Incurved Int. Incurved	S-4 S-4 S-3 S-1 S-2 S-2 S-3 S-1
	11 We	ek Varieties		
**Yellow Marketeer **Bonnaffon Deluxe **Friendly Rival Yellow Mefo Cream Mefo **Purdue Harvester **Marie DePetris Yellow Peter John	July 25 July 28 July 28 July 28 July 28	Nov. 18 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 23 Nov. 23 Nov. 23	Int. Semi-Incurved Small Incurved Int. Incurved Large Incurved Large Incurved Int. Incurved Int. Incurved Int. Incurved Medium Reflexed	P-3 S-4 S-3 S-4 S-2 S-1 S-3 S-3 S-3
	12 We	ek Varieties		
Dk. Yel. Chattanooga Yellow Chattanooga Golden Pearson Mrs. Calkins **Sungold Golden Mrs. Ross **Yellow Moeller	Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1 Aug. 1	Nov. 25 Nov. 25 Nov. 25 Nov. 25 Nov. 25 Dec. 3 Dec. 3	Large Incurved Large Incurved Int. Incurved Int. Semi-Incurved Int. Incurved Large Incurved Int. Incurved	P-2 S-3 S-3 S-1 S-3 S-3 S-2

^{**}Also recommended for Pot Plants

	/				
	Normal	310	Jamesing Data	Description	Price Classification
Variety	Pinch Date	F	lowering Date	Description	Clussification
		13 Week Var		Turk Turkeyand	C 1
Golden Mistletoe	Aug. 10		Dec. 5 Dec. 5	Int. Incurved Int. Incurved	S-1 S-1
Chalice Tobin's Yellow	Aug. 10 Aug. 10		Dec. 13	Int. Semi-Incurved	S-3
Meteore	Aug. 10		Dec. 13	Int. Semi-Incurved	S-3
**Dauntless	Aug. 23		Dec. 13	Small Semi-Incurved	S-2
	0	001	0+ 1.1.		
	Isronze	& Ked	Standards		
	0	8 Week Vari			
Mayford's Triumph	July 15	O WCCIK VIII	Oct. 15	Med. Incurved	S-1
Amber Bright	July 15		Oct. 15	Med. Incurved	S-1
		9 Week Vari	ieties		
**Hilda Bergen	July 15	0 110011 1331	Oct. 25	Int. Incurved	S-2
**Glitters	July 20		Oct. 28	Int. Reflexed	S-1
**Red Glitters	July 20		Oct. 28 Nov. 1	Int. Reflexed Small Incurved	S-1 S-2
Ivanhoe **Apricot Queen	July 15 July 20		Nov. 1	Int. Incurved	S-2
Detroit News	July 20		Nov. 1	Int. Incurved	S-4
**Royal Bronze	July 20		Nov. 1	Small Semi-Incurved	P-3
		10 Week Var	rieties		en 4
**Ind. Bronze	July 25		Nov. 5	Int. Incurved Quilled; Semi-Incurved	S-4 S-1
**Ind. Golden Bronze **Dk. Ind. Bronze	July 25 July 25		Nov. 5 Nov. 5	Int. Incurved	P-3
Anaconda	July 25		Nov. 8	Large Incurved	S-2
Delaware	July 25		Nov. 8	Semi Incurved	P-1 S-1
Oakdale Br. Orchid Queen	July 20 July 25		Nov. 10 Nov. 10	Int. Incurved Large Semi-Incurved	S-1 S-2
Mrs. Stahelin	July 20		Nov. 10	Int. Incurved	S-2
Mrs. Roy	July 25		Nov. 13	Int. Incurved	S-3 S-2
Garnet King	July 25		Nov. 13	Int. Reflexed	5-4
	A 4	11 Week Var		T. J. Tu 1	S-2
Br. Frick Br. Peter John	Aug. 1 Aug. 1		Nov. 20 Nov. 23	Int. Incurved Medium Reflexed	S-2 S-3
Di. I etti John	11ug. 1	12 Week Va		mediam zenenea	~ ~
Gladys Pearson	Aug. 1	12 WEEK VA	Nov. 25	Int. Incurved	S-3
Oak Leaf	Aug. 1		Nov. 25	Int. Incurved	S-3
**Muto's Crimson	Aug. 1		Dec. 1	Int. Semi-Incurved	S-2
		13 Week Var	rieties		
Bronze Mistletoe	Aug. 5		Dec. 5	Int. Incurved	S-2
	0.	rk Sta	1 . 1.		
	PU	ur sua	naaras		
		8 Week Var	ieties		
Pink Chief	July 15		Oct. 15	Int. Incurved	S-3
Maj. Bowes	July 15		Oct. 20	Med. Incurved	S-1
		9 Week Var	ieties		
Sugarplum	July 15		Nov. 1	Int. Incurved	S-1
		10 Week Var	rieties		
J. W. Prince	July 22		Nov. 5	Int. Incurved	S-2
**Ind. Pink Orchid Queen	July 22 July 22		Nov. 5 Nov. 10	Int. Incurved Large Semi-Incurved	S-4 S-2
Lavender Queen	July 20		Nov. 10	Large Semi-Incurved	S-2
Dk. Orchid Queen	July 22		Nov. 10	Large Semi-Incurved	S-3
**Queen of Pinks Pink Pockett	July 20 July 20		Nov. 10 Nov. 10	Small Incurved Large Incurved	S-4 S-2
Phillip Kay	July 22		Nov. 10	Large Incurved	S-3
Pink Fern Edwards	July 22		Nov. 10	Large Incurved	S-3
		11 Week Va	rieties		
Aristocrat	July 25		Nov. 20	Large Incurved	S-2
**Helen Frick Rose Delight	July 25 July 25		Nov. 20 Nov. 20	Int. Incurved Med. Incurved	S-3 S-1
Thanks. Pink	July 28		Nov. 23	Int. Reflexed	S-3
Ed. Seidewitz	July 28		Nov. 23	Int. Incurved	S-2
Dark Peter John Light Peter John	July 28 July 28		Nov. 23 Nov. 23	Medium Reflexed Medium Reflexed	S-3 S-3
But a coot oomi	0 azy 20	13 Week Va		Jacob Alexandra	2 0
Pink Mistletoe	Aug. 5	10 HEER Va.	Dec. 5	Int. Incurved	S-2
	2206.0			30077 MONTHS 1 6/16	2 2
**Also recommended for Pot Plants	Price Clas	sification Tran	slated on Page 28		

Price Classification Translated on Page 28

Nightingalo	T1 20	0-4-95	7771 1 01 1 - 0	G 0
Nightingale	July 20	Oct. 25	White Chartruese Center	S-2
Silver Queen	July 20	Oct. 25	White	P-1
**Queens Lace	July 20	Nov. 1	White	S-3
Kay Tashima	July 20	Nov. 1	White	S-1
White Mary Garden	July 20	Nov. 1	White	P-1
White Rayonnante	July 20	Nov. 5	White	S-2
Kegons White	July 25	Nov. 10	White	S-3
Moribana	July 15	Oct. 25	Yellow	P-1
Luyona	July 20	Oct. 25	Yellow	P-3
**Yellow Lace	July 20	Nov. 1	Yellow	S-3
**Gold Lace	July 20	Nov. 1	Yellow	P-3
**Hooked Yellow Lace	July 20	Nov. 1	Yellow	P-3
Yellow Rayonnante	July 25	Nov. 5	Yellow	S-2
Yel. Curly Spider	July 25	Nov. 5	Yellow	S-1
Lorraine	July 22	Nov. 15	Yellow	S-1
Dalwin	July 15	Oct. 25	Lt. Bronze	P-3
Antique	July 20	Nov. 1	Bronze	P-1
Waikiki	July 25	Nov. 5	Apricot Bronze	S-1
Gena Harwood	July 20	Nov. 5	Buff Bronze	S-2
Nomago	July 20	Nov. 5	Bronze	S-2
Mamoru	July 25	Nov. 5	Buff Bronze	S-1
Mrs. Eisenhower	Aug. 1	Nov. 5	Bronze	P-1
Mrs. Walker	July 20	Nov. 1	Deep Lavender	S-1
Mary Garden	July 20	Nov. 1	Pink	S-2
Rayonnante	July 22	Nov. 5	Pink	S-2
Peggy Hoover	July 22	Nov. 10	Pink	S-1
Sue Sally Jones	July 25	Nov. 5	Lemon	S-1
Bunbu	July 22	Nov. 1	Lavender	S-2

^{**}Also recommended for Pot Plants

Price Classification Translated on Page 28

VARIETIES BEST SUITED FOR POT CULTURE

Arlora
Antique
Apricot Queen
Butterball
Blue Chip
Barbara Fuller
Bonfire
Bonnafon De Luxe
Buckeye
Bamboo
Beautiful Lady
Blazing Gold
Carrara
Copperhead
Constellation
Christina
Claret
Courtier
Citation
Criterion
Cover Girl
Dalwin
Delaware
Dream Girl
Dk. Br. Masterpiece
Firegleam
Festival
Fairyland
Garland
Gold Rush
Garnet King
Gypsy
Gold Lace
Granite State
Humdinger

Hooked Yel. Lace Honeycomb Ind. White Ind. Yellow Ind. Pink Ind. Bronze Dk. Ind. Bronze Imp. Ind. Yellow Ill. Snowdrift Ill. Warrior J. W. Prince Jet Fire Joybringer Jewel Lemonade Lassie Little America Masterpiece Marshmallow Maestro Ming Moonlight Major Bowes Mona Mrs. Du Pont Masquerade Mrs. Stahlein Mrs. Kidder Orchid Spoon Ostara Orloma Orsona Ponca Portrait Petrusian Mauve

Horizon

Petrusian Rose **Pacesetter** Queen of Pinks Queens Lace Renown Remembrance Red Velvet Red Glow Red King Red Rolinda Rubicon Reward Richard Mandel Royal Bronze Shalimar Spellbound Serenade Sonnet Sept. Morn Silverplate Suntone Sundew Sunray Starlight Thelma Thyra White Cloud White Lady Wilsons White W. P. Snyder Yellow Spoon Yellow Lace Yellow Christ. Columbus

Petrusian Pink

For further information on above pot varieties refer to Index for page numbers listing complete information.

SYMBOLS: (L) LARGE — (D) DECORATIVE — (P) POM — (C) CUSHION (S) SINGLE — (B) BUTTON — (C-F) CARNATION FLOWERED

* RECOMMENDED FOR MOTHER'S DAY POT PLANTS PINCHED AND SHORT DAY TREATMENT SAME DAY

D VARIETIES RECOMMENDED AS BETTER WHEN DISBUDDED

Variety	Size & Type	Color	Height	Matures	Per 100 Price
WHITE					
Osage Candlelight D. D. Ahrens Paper White *Crystal Maid *Chris Columbus Wh. Cushion *Calcite Powder Puff (Cushion) Martens White Polar Ice *Wh. Bounty DWh. Tower Snowspoon Wh. Wonder *Shalimar (H) *Ostosa (New) Wh. Cloud *Pepita Snow Fall Ermine Gardenia Limelight (New) *Lyric Avalanche *Horizon Youdath's Wh. *Marshmallow Snow Elf *Classic *Maestro Wh. Spoon *Silverplate Silver Ball Irene Norona	(CD) (D) (D) (D) (D) (D) (LD) (CD) (LD) (LD) (LD) (LD) (Spoon) (LP) (LP) (CP) (D) (B) (D) (LD) (CS) (LD) (P) (CS) (LD) (P) (CS) (LD) (P) (CS) (LD) (P) (Spoon) (LP) (P) (Spoon) (D) (P) (SP)	White Ivory White White Cream Cream White Cream White White White White Ivory Cream White Ivory Cream White	Med. Med. Tall Med. Short Tall Short Med. Short Med. Med. Tall Tall Med. Med. Med. Med. Med. Med. Med. Med.	Sept. 5 Sept. 5 Sept. 10 Sept. 10 Sept. 10 Sept. 12 Sept. 15 Sept. 16 Sept. 17 Sept. 18 Sept. 18 Sept. 25 Sept.	12.50 6.00 6.00 7.50 15.00 6.50 6.50 6.00 7.50 8.00 7.50 8.00 7.00 7.50 7.50 15.00 7.50 7.50 7.50 7.50 7.00 7.00 7.50 7.5
YELLOW					•
Pathfinder *Early Gold Golden Hours Delight Genista Yel. Supreme (H) *Pomponette Yel. Cushion *Yel. Chris Columbus *Early Yellow Golden Carpet *D Ming *Aglow *Sept. Sunshine Wychwood Golden Wonder Canary Wonder Chas. Nye Golden Sunset Honeycomb *Moonlight (DePetris) Lee Powell Tangerine Flaxen Beauty Tranquility *Chiquita James Eadie Yel. Avalanche	(C-F) (P) (P) (P) (C) (C) (C) (LD) (B) (CP) (P) (P) (P) (LP) (LP) (LD) (LD) (LD) (LD) (LD) (LD) (LD) (LD	Lemon Golden Chrome Yel. Golden Canary Brt. Lemon Golden Light Yellow Brt. Lemon Dp. Lemon Golden Orange Yel. Orange Br. Lemon Canary Golden Canary Golden Canary Dp. Lemon Copper Gold Golden Brt. Yel. Chinese Yel. Dp. Orange Light Lemon Light Lemon Deep Lemon Deep Chrome Lt. Lemon	Med. Short Med. Med. Short Short Short Med. Short Med. Med. Med. Med. Med. Med. Med. Med.	Aug. 28 Sept. 5 Sept. 8 Sept. 8 Sept. 12 Sept. 15 Sept. 15 Sept. 15 Sept. 15 Sept. 15 Sept. 15 Sept. 20 Sept. 20 Sept. 20 Sept. 25	12.50 7.50 6.50 8.00 10.00 6.00 6.50 6.00 7.00 8.00 12.50 6.50 6.50 10.00 7.00 7.00 7.00 7.50 8.00 8.00 15.00 6.50 6.50 6.50 6.50 6.50 6.50 6.50

Note: Above prices are for 100 cuttings. Prices for larger quantities on page 28.

Variety & Type Color Height Matures Per 100	1	Size				Price
Garland		& Type	Color	Height	Matures	Per 100
Yel. Avalanche		(0)	_			
Polaris Color Polaris		(S) (LD)				
Dwight Douglas (LD) Golden Yel. Med. Oct. 5 10,00	Polaris	(S)	Golden Buff	Med.		
Sanstone (New) (Spoon) Light Yel. Tail Oct. 8 10,000			Deep Chrome Golden Vol			
Spode Cl. Inc) Lemon Short Oct. 8 15.00	Sunstone (New)	(Spoon)		Tall		
Tressure						15.00
Golden Spoon Golden Med. Oct. 10 6.00		(P)	Golden			
Bright Forecast CP Brt. Lemon Med. Oct. 10 7.00					Oct. 10	6.00
*Goldrush (S) Lemon Med. Oct. 10 7.00 Sweepstake (P) Lemon Med. Oct. 12 7.50 *Lemonade (P) Lory Med. Oct. 12 7.50 *Lemonade (P) Lory Med. Oct. 12 7.50 *Lemonade (P) Lory Med. Oct. 12 7.50 *Golden Med. Oct. 15 7.50 *Golden Med. Sept. 10 7.50 *Golden Med. Sept. 15 7.50 *Golden Med. Sept. 20 7.50		(P)				
Valiant (L. Inc) Light Golden Med. Oct. 15		(S)			Oct. 10	7.00
*Valiant (L. Inc) Colden Med. Oct. 15 15.00 *Rodell Unde (L. Inc) Colden Med. Oct. 15 7.00 *Rodell Unde (L. Inc) Colden Med. Oct. 15 6.00 *Yel. Irene (B) Light Lemon Med. Oct. 15 6.00 *Yel. Irene (B) Light Lemon Med. Oct. 15 6.50 *Buttercup (H) (New) (L. Inc) Golden Short Oct. 15 12.30 *Buttercup (P) (New) (L. Inc) Golden Yel. Med. Oct. 15 12.30 *Buttercup (P) (New) (L. Inc) Golden Yel. Med. Oct. 15 12.30 *Bransota (New) (P) Brt. Lemon Med. Oct. 15 12.30 *Bransota (New) (P) Mah. Orange Short Sept. 8 7.50 *Golden Yel. Med. Oct. 15 12.30 *Sept. 18 7.50 *Golden Yel. Med. Oct. 15 12.30 *Sept. 18 7.50 *Golden Yel. Med. Oct. 15 12.30 *Sept. 18 7.50 *Golden Yel. Med. Oct. 15 12.30 *Sept. 18 7.50 *Golden Yel. Med. Oct. 15 12.30 *Sept. 18 7.50 *Golden Short Sept. 8 7.50 *Golden Short Sept. 10 7.50 *Golden Short Sept. 20 7.50 *Golden Short Sept. 25 6.60 *Golden Short Sept		(P)				
Rodell Imp. (B)			Light Golden	Med.	Oct. 15	15.00
Yel. rene (B)						
#Moneysweet (L. Inc) Golden Yel. Med. Oct. 15 15.00 Sarasota (New) (P) Brt. Lemon Med. Oct. 15 12.50 BRONZE & RED Early Harvest (CD) Mah. Orange Short Sept. 8 7.50 Glow Worm (D) Golden Br. Short Sept. 8 7.50 Glow Worm (D) Orange Scarlet Short Sept. 8 7.50 Glow Worm (D) Orange Scarlet Short Sept. 8 7.50 Autumn Song (D) Wine Rose Med. Sept. 10 7.50 Autumn Song (D) Wine Rose Med. Sept. 10 7.50 Autumn Song (D) Wine Rose Med. Sept. 10 6.50 Apache (LD) Red & Gold Med. Sept. 15 12.50 Autumn Fide (D) Coral Salmon Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 15 12.50 Autumn Fide (D) Orange Br. Med. Sept. 20 12.50 Sept. Bronze (B) Golden Br. Med. Sept. 20 12.50 Sept. Bronze (B) Golden Br. Med. Sept. 20 12.50 Sept. Bronze (B) Golden Br. Med. Sept. 20 12.50 Sept. Bronze (B) Golden Br. Med. Sept. 20 10.00 Red Glow (P) Dark Red Med. Sept. 20 10.00 Scarlet Crimson (D) Brt. Red Med. Sept. 20 10.00 Scarlet Crimson (D) Brt. Red Med. Sept. 20 10.00 Scarlet Crimson (C) Brt. Red Short Sept. 25 10.00 Name. Cadillac (B) Brt. Red Med. Sept. 20 10.00 Scarlet Crimson (CD) Brt. Red Short Sept. 25 10.00 Mah. Cushion (CD) Brt. Red Short Sept. 25 10.00 Mah. Cushion (CD) Brt. Red Short Sept. 25 10.00 Mah. Cushion (CD) Bred Short Sept. 25 6.00 Mah. Cushion (CD) Bred Short Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion (CD) Brt. Red Med. Sept. 25 6.00 Mah. Cushion	Yel. Irene	(B)	Light Lemon	Med.	Oct. 15	6.50
BRONZE & RED						
Harbinger						
Harbinger	BRONZE & RED					
Glow Worm						
*W. P. Snyder (LP) Apr. Orange Med. Sept. 10 7.50 Autumn Song (D) Wine Rose Med. Sept. 15 12.50 Apache (LD) Red & Gold Med. Sept. 15 12.50 Autumn Tide (D) Coral Salmon Med. Sept. 15 7.00 Red Gold (B) Red & Gold Med. Sept. 15 7.00 Orloma (C) Apr. Bronze Med. Sept. 15 10.00 Flamboyant (D) Orange Br. Med. Sept. 15 15.00 Overly (C) Bronze Med. Sept. 20 12.50 Sept. Bronze (B) Golden Br. Med. Sept. 20 6.00 Red Glow (P) Dark Red Med. Sept. 20 7.00 Red Glow (P) Dark Red Med. Sept. 20 7.00 Red Glow (P) RasperryWine Short Sept. 20 10.00 Seriet Crimson (D) <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
Apache	*W. P. Snyder	(LP)	Apr. Orange	Med.		7.50
Autumn Tide						
Orloma (C) Apr. Bronze Med. Sept. 15 10,00 Flamboyant (D) Orange Br. Med. Sept. 15 15,00 Overly (C) Bronze Med. Sept. 20 12,50 Sept. Bronze (B) Golden Br. Med. Sept. 20 7,00 Red Glow (P) Dark Red Med. Sept. 20 7,00 *Orsona (C) Red & Bronze Med. Sept. 20 10,00 *Scarlet Crimson (D) Brt. Red Med. Sept. 20 10,00 Alpena (D) Red Red Proval Med. Sept. 20 10,00 Alpena (D) Red Red Proval Med. Sept. 25 15,00 Rouge Cushion (C) Brt. Red Short Sept. 25 7,00 Rouge Cushion (CD) Dp. Bronze Short Sept. 25 7,00 Rouge Cushion (CD) Dp. Bronze Short Sept. 25 6,00 Ren. Wonder	Autumn Tide	(D)	Coral Salmon			
Flamboyant		(B)			Sept. 15	
Sept. Bronze (B)		(D)	Orange Br.	Med.		
Goblin (P) Golden Br. Tall Sept. 20 7.00 *Orsona (C) Red & Bronze Med. Sept. 20 7.50 *Orsona (C) Red & Bronze Med. Sept. 20 10.00 *Scarlet Crimson (D) Brt. Red Med. Sept. 20 10.00 Mme. Cadillac (P) Raspberry Wine Short Sept. 20 10.00 Alpena (D) Red Med. Sept. 25 15.00 Alpena (D) Red Med. Sept. 25 15.00 Rosewood Med. Sept. 25 15.00 Br. Wonder (P) Rosewood Med. Sept. 25 6.00 Champ. Cushion (CD) Dp. Bronze Short Sept. 25 6.00 Mah. Cushion (CD) Red Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Short Sept. 25 6.00 Mah. Cushion (CD) Rust Red Med.						
Red Glow (P) Dark Red Med. Sept. 20 7.50 *Orsona (C) Red & Bronze Med. Sept. 20 10.00 Scarlet Crimson (D) Brt. Red Med. Sept. 20 10.00 Mme. Cadillac (P) Raspberry Wine Short Sept. 25 15.00 Alpena (D) Red Med. Sept. 25 15.00 Rouge Cushion (C) Brt. Red Med. Sept. 25 8.00 Br. Wonder (P) Rosewood Med. Sept. 25 6.00 Champ. Cushion (CD) Dp. Bronze Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Short Sept. 25 6.00 Mal. Cushion (CD) Jasper Red Short Sept. 25 6.00 Mal. Cushion (P) Golden Br. Med. Sept. 25 8.00 Holiday (H) (P) Golden Br. Med. Sept. 25 8.00 Remembrance		(P)				
Scarlet Crimson (D)		(P)				
Alpena	Scarlet Crimson	(D)		Med.		
Rouge Cushion (C)		(P)				
Br. Wonder (P) Rosewood Med. Sept. 25 7.00 Champ. Cushion (CD) Dp. Bronze Short Sept. 25 6.00 Comd. Cushion (CD) Red Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Med. Sept. 25 7.50 Holiday (H) (P) Golden Br. Med. Sept. 25 8.00 Elite Cushion (C) Salmon Br. Short Sept. 25 8.00 Salmon Br. Short Sept. 25 8.00 Salmon Br. Short Sept. 25 8.00 Salmon Br. Short Sept. 28 7.50 Salmon Br. Sept. 28 7.50 Sept. 28 Sept. 2	Rouge Cushion	(C)	Brt. Red	Short	Sept. 25	
Comd. Cushion (CD) Red Short Sept. 25 6.00 Mah. Cushion (CD) Jasper Red Short Sept. 25 6.00 Marionette (P) Rust Red Med. Sept. 25 7.50 Holiday (H) (P) Golden Br. Med. Sept. 25 8.00 Holiday (H) (P) Golden Br. Med. Sept. 25 8.00 *Remembrance (LD) Dp. Carmine Med. Sept. 28 7.50 Kath. Lehman (LD) Orange Br. Med. Sept. 28 7.50 Kath. Lehman (LD) Salmon Fawn Med. Sept. 28 7.50 Kath. Lehman (LD) Salmon Fawn Med. Sept. 28 7.50 Kath. Lehman (LD) Orange Br. Med. Oct. 1 9.00 Mogul (P) Orange Rust Med. Oct. 1 9.00 Mogul (P) Orange Rust Med. Oct. 1 12.50 Iron Mountain		(P)			Sept. 25	
Marionette (P) Rust Red Med. Sept. 25 7.50 Holiday (H) (P) Golden Br. Med. Sept. 25 8.00 Elite Cushion (C) Salmon Br. Short Sept. 28 8.00 *Remembrance (LD) Dp. Carmine Med. Sept. 28 7.50 Kath. Lehman (LD) Orange Br. Med. Sept. 28 7.50 Kath. Lehman (LD) Salmon Fawn Med. Sept. 28 7.50 Kath. Lehman (LD) Salmon Fawn Med. Sept. 28 7.50 Kath. Lehman (LD) Prome Med. Oct. 1 9.00 Jubilee (H) (P) Crimson Med. Oct. 1 9.00 Mogul (P) Orange Rust Med. Oct. 1 8.00 Reverie (D) Buff Br. Med. Oct. 1 12.50 Iron Mountain (P) Deep Red Med. Oct. 1 12.50 Magnificent (LD) <td< th=""><th>Comd. Cushion</th><th>(CD)</th><th>Red</th><th></th><th></th><th></th></td<>	Comd. Cushion	(CD)	Red			
Holiday (H)						
Elite Cushion		(P)				
Kath. Lehman (LD) Orange Br. Med. Sept. 28 7.00 Admiration (LD) Salmon Fawm Med. Sept. 28 6.50 Jubilee (H) (P) Crimson Med. Oct. 1 9.00 Mogul (P) Orange Rust Med. Oct. 1 8.00 Reverie (D) Buff Br. Med. Oct. 1 12.50 Iron Mountain (P) Deep Red Med. Oct. 1 15.00 Magnificent (LD) Plum Red Tall Oct. 1 8.00 Red Cloud (Cushion) (CD) Scarlet Med. Oct. 1 8.00 Red Riding Hood (D) Brt. Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Med. Oct. 1 12.50 Bonfir						
Admiration (LD) Salmon Fawn Med. Sept. 28 6.50 Jubilee (H) (P) Crimson Med. Oct. 1 9.00 Mogul (P) Orange Rust Med. Oct. 1 8.00 Reverie (D) Buff Br. Med. Oct. 1 12.50 Iron Mountain (P) Deep Red Med. Oct. 1 15.00 Magnificent (LD) Plum Red Tall Oct. 1 8.00 Med Cloud (Cushion) (CD) Scarlet Med. Oct. 1 7.00 Red Riding Hood (D) Brt. Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Gondolier (LD) Crimson Med. Oct. 1 12.50 Gondier (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 7.50 Regina (New) (Spoon) </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
Mogul (P) Orange Rust Med. Oct. 1 8.00 Reverie (D) Buff Br. Med. Oct. 1 12.50 Iron Mountain (P) Deep Red Med. Oct. 1 15.00 Magnificent (LD) Plum Red Tall Oct. 1 8.00 Red Cloud (Cushion) (CD) Scarlet Med. Oct. 1 7.00 Red Riding Hood (D) Brt. Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Gondolier (LD) Crimson Med. Oct. 1 12.50 Bonfire (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.50 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S)						
Iron Mountain	Mogul	(P)				
Magnificent (LD) Plum Red Tall Oct. 1 8.00 Red Cloud (Cushion) (CD) Scarlet Med. Oct. 1 7.00 Red Riding Hood (D) Brt. Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Gondolier (LD) Crimson Med. Oct. 1 1.2.50 Bonfire (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.50 Firecracker (D) Mahogany Tall Oct. 5 7.50 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet						
Red Riding Hood (D) Brt. Red Med. Oct. 1 6.50 Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Gondolier (LD) Crimson Med. Oct. 1 12.50 Bonfire (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.50 Firecracker (D) Mahogany Tall Oct. 5 6.00 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50	Magnificent					
Sam Williston (Cushion) (CS) Deep Red Short Oct. 1 6.50 Gondolier (LD) Crimson Med. Oct. 1 12.50 Bonfire (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.00 Firecracker (D) Mahogany Tall Oct. 5 6.00 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50				and the same of th		
Gondolier (LD) Crimson Med. Oct. 1 12.50 Bonfire (D) Brt. Red Med. Oct. 1 7.50 Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.00 Firecracker (D) Mahogany Tall Oct. 5 6.00 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50						
Regina (New) (LD) Apricot Br. Med. Oct. 1 10.00 Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.00 Firecracker (D) Mahogany Tall Oct. 5 7.50 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50						
Card. Spoon (Spoon) Red Bronze Med. Oct. 1 7.00 Firecracker (D) Mahogany Tall Oct. 5 7.50 Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50	Regina (New)			Med.	Oct. 1	10.00
Cydonia (LD) Mahogany Tall Oct. 5 6.00 *Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50	Card. Spoon	(Spoon)	Red Bronze			
*Sept. Cheer (S) Cherry Red Med. Oct. 5 6.00 Burgundy (LD) Wine Red Tall Oct. 5 6.00 Ruby Pompon (P) Ruby Crimson Med. Oct. 5 6.00 Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50	Cydonia	(LD)		Tall		6.00
Ruby Pompon Red Velvet(P)Ruby Crimson Dk. CrimsonMed.Oct. 5 Med.6.00 Oct. 57.50	*Sept. Cheer	(S)	Cherry Red			
Red Velvet (LD) Dk. Crimson Med. Oct. 5 7.50	Ruby Pompon					
*Mona (D) Deat Deane No. 1		(LD)	Dk. Crimson		Oct. 5	7.50
*Mona (P) Rust Bronze Med. Oct. 5 7.50 Avalon (P) Orange Bronze Tall Oct. 5 8.00		(P)				
Courageous (LD) Dark Ruby Med. Oct. 5 6.50	Courageous	(LD)				

Note: Above prices are for 100 cuttings. Prices for larger quantities on page 28.

Coral Buff Coral Apr. Salmon Br. Copper Dp. Crimson	Tall Tall Med. Med. Med. Tall	Oct. 5 Oct. 8 Oct. 8 Oct. 8 Oct. 8	7.00 7.00 9.00
Coral Apr. Salmon Br. Copper	Tall Med. Med. Med.	Oct. 8 Oct. 8 Oct. 8 Oct. 8	7.00 9.00
Raspberry Red Apricot Scarlet Orange Burnt Orange Salmon Br. Amaranth Red Carmine Buff Orange Burnt Orange Burnt Orange Dark Red Rosewood Golden Br. Apr. Gold Dark Red Scarlet Lt. Bronze Bronze	Med. Tall Med. Med. Tall Tall Tall Tall Med. Med. Med. Med. Tall Tall Tall Tall	Oct. 8 Oct. 10 Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15	6.50 7.50 10.00 10.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50
China Rose Deep Lav. Rose Pink Salmon Pink Rose Pink Purple Dk. Purple Lavender Orch. Lav. Purple Brt. Purple Lav. Pink Brt. Pink Heather Pink Dk. Purple Apr. Salmon Lavender Lavender Lavender Lavender Lavender Rose Lavender Rose Lavender Rose Pk. Rose Ctr. Light Pink Peach Pink Deep Lav. Lav. Pink Amar. Purple Deep Rose Purple Deep Rose Lavender Dp. Lavender Mauve Lt. Pink Rose Pink Lav. Pink Rose Pink Lav. Pink Lav. Pink Lav. Pink Lav. Pink Rose Pink Lav. Pink Lav. Pink Lav. Pink Lav. Pink Dk. Lav. Lt. Lav. Lav. Rose Dk. Pink	Short Med. Med. Short Med. Med. Med. Med. Med. Med. Med. Med.	Aug. 28 Sept. 1 Sept. 1 Sept. 1 Sept. 5 Sept. 5 Sept. 10 Sept. 10 Sept. 10 Sept. 15 Sept. 15 Sept. 20 Sept. 20 Sept. 20 Sept. 25 Sept. 25 Sept. 25 Sept. 25 Sept. 25 Sept. 25 Sept. 28 Sept. 20 Sept. 20 Sept. 20 Sept. 25 Sept. 26 Sept. 26 Sept. 27 Sept. 26 Sept. 27	7.00 8.00 8.00 7.00 12.50 6.50 6.50 7.00 7.50 9.00 6.50 7.00 6.50 6.00 6.50 7.00 6.50 7.00 6.50 8.00 7.50 6.50 7.00 15.00 9.00 15.00 10.00 10.00 10.00 10.00 10.00 7.50 7.50 7.50 7.50 7.50 7.50 7.50
	Deep Rose Lavender Dp. Lavender Mauve Lt. Pink Rose Pink Lav. Pink Dk. Lav. Lt. Lav. Lav. Pink Lavender Orch. Lav. Lav. Rose Dk. Pink Lay. Rose	Deep Rose Tall Lavender Med. Dp. Lavender Tall Mauve Med. Lt. Pink Med. Rose Pink Med. Lav. Pink Tall Dk. Lav. Short Lt. Lav. Med. Lav. Pink Med. Lav. Pink Med. Lav. Pink Med. Lav. Rose Med. Lav. Rose Med. Dk. Pink Med.	Deep Rose Tall Oct. 3 Lavender Med. Oct. 5 Dp. Lavender Tall Oct. 10 Mauve Med. Oct. 5 Lt. Pink Med. Oct. 5 Rose Pink Med. Oct. 5 Lav. Pink Tall Oct. 5 Dk. Lav. Short Oct. 10 Lt. Lav. Med. Oct. 10 Lav. Pink Med. Oct. 10 Lavender Med. Oct. 10 Orch. Lav. Med. Oct. 10 Lav. Rose Med. Oct. 10 Dk. Pink Med. Oct. 10 Lav. Rose Med. Oct. 10 Lav. Rose Med. Oct. 10

Note: Above prices are for 100 cuttings. Prices for larger quantities on page 28.

Garden	Varieties
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Variety	Size & Type	Color	TTo los los	76.07	Price
Variety	a zype	Color	Height	Matures	Per 100
PINK & LAVENDER					
Ronnie Elizabeth Hood Allegro Adagio Sonnet *Jewell Enterprise Elizabeth Hood	(B) (LD) (P) (P) (P) (P) (P) (LD)	Dk. Lav. Lav. Pink Shrimp Pk. Raspberry Rose Salmon Pink Lav. Pink Amaranth Lav. Pink	Med. Med. Med. Tall Med. Med. Tall Med.	Oct. 12 Oct. 12 Oct. 12 Oct. 12 Oct. 15 Oct. 15 Oct. 15 Oct. 15	7.50 8.00 7.50 7.00 9.00 7.00 8.00 8.00
	Large flowering	g Mums which are normally od outside, should be disbudd	grown in the greed to one bloom	eenhouse, per stem.	
WIIITE				*	
WHITE Silver Sheen	M-Inc.	White	Tall	Oct. 20	C TO
YELLOW	A14 A4400	***************************************	Idii	Oct. 20	6.50
Harvest Golden *D Gold Lode Celestra Mrs. Kidder Buttercup (H) (New) Valiant Honeysweet	M-Inc. M-Ref. M-Inc. L-Inc. M-Inc. M-Inc. M-Inc.	Deep Golden Lemon Lemon Dp. Lemon Golden Lt. Golden Lt. Golden	Tall Tall Tall Tall Short Med. Med.	Oct. 10 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15 Oct. 15	7.50 7.00 7.00 6.50 12.50 15.00
BRONZE & RED					
Amber Bright Chopin (New)	M-Inc. M-Inc.	Golden Yellow Amber Bronze	Med. Med.	Oct. 15 Oct. 15	7.50 12.50
PINK & LAVENDER					
Pk. Chief Major Bowes	L-Inc. L-Inc.	Lavender Dp. Lavender	Tall Tall	Oct. 15 Oct. 15	7.50 6.50
	Note: Above prices	are for 100 cuttings. Prices for	· larger quantitie	es on page 28.	
		EASTER DATES	\$		
1954	April 10 April 1	1958	Iarch 29 April 17	1962	April 14
		BIRTHDAY FLOWI	ERS		
Jan	Violets Jonquils	MayLily-of-th JuneJulyI Aug.	Roses Larkspur	Sept	Calendulas vsanthemums
		WEDDING ANNIVERS	ARIES		
1st Yr. 2nd Yr. 3rd Yr. 4th Yr. 5th Yr. 6th Yr. 7th Yr. 8th Yr.	Cotton .Leather Flowers .WoodenSugarWool	9th Yr. 10th Yr. 11th Yr. 12th Yr. 14th Yr. 15th Yr. 20th Yr.	TinSteel x, LinenLaceIvory .Crystal	25th Yr. 30th Yr. 35th Yr. 40th Yr. 45th Yr. 50th Yr. 55th Yr. 75th Yr.	PearlCoralRubySapphireGoldEmerald

PRICES PER 100

Price Classification	50-250	300-450	500-950	1000-2450	2500 սթ
S-4	\$ 6.00	\$ 5.70	\$ 5.40	\$ 5.10	\$ 4.80
S-3	6.50	6.15	5.85	5.50	5.20
S-2	7.00	6.65	6.30	5.95	5.60
S-1	7.50	7.15	6.75	6.40	6.00
P-3	8.00	7.60	7.20	6.80	6.40
P-2	9.00	8.55	8.10	7.65	7.20
P-1	10.00	9.50	9.00	8.50	8.00
N-9	12.50	12.00	11.50	11.00	10.50
P-0	15.00	14.25	13.50	12.75	12.00

COLLECTIONS

When varieties are not specified, orders may be placed for any general grouping of varieties available at time of shipment. These orders must be in full 300 box units.

1	box	(30	O R	R.	C.	.).					 							 				• •		 			• •	 ٠	\$	17.10
2	boxes	(60	O R	R.	C.	.).	 				 				• •			 						• •	 	 		 •		32.40
3	boxes	(90	0 R	R.	C	.).		 •			 							 	 				 •	 	 	 				48.60
4	boxes	(120	0 F	R.	C	.).	 				 							 	 	•			 ٠	 	 	 				61.20
5	boxes	(150	0 F	R.	C	.).	 				 		٠					 	 		•		 •	 	 	 				76.50
6	boxes	(180	0 F	R.	C	.).	 		• •	۰	 		•					 	 					 	 	 				91.80
7	boxes	(210	0 F	R.	C	.).				٠	 	 				 •		 	 					 	 	 	• •		1	07.10
8	boxes	(240	0 F	R.	C	.).	 				 								 					 	 	 			1	22.40
9	boxes	(270	0 F	R.	C	.).				۰	 							 	 				 ۰	 	 	 			1	29.60
10	boxes	(300	0 F	R.	C	.).						 							 					 	 	 			1	44.00

For Growers who are not familiar with Garden Varieties, but who want a well balanced assortment, we offer the following Collections, which include the better varieties.

COLLECTION #1

Taller Varieties for cutting.

COLLECTION #3

50% for Cutting 50% for Bedding COLLECTION #2

For Pots or Bedding

COLLECTION #4

For Easter, Mother's Day or Memorial Day Pots

COLLECTION #5

Cushion Varieties Only

PRICES PER 100

300-450 \$5.70 500-1150 \$5.40

1200-2350 \$5.10 2400 & up \$4.80

Carnation Rooted Cuttings for 1955 Season

Cuttings will be available from December on

WHITE Per 1	100 Per 1000	DED	
Aurora. Large White\$15.		RED Per 100	Per 1000
Frosty. Pure White		nCardinal Sim. New. Shade lighter than Wm. Sim. 20.00	150.00
Hoosier Spice. White	00 175.00	DK. Red Sim. Red	150.00
Jupiter. Large White	00 105.00	Ember Sim. Lighter than Wm. Sim 20.00	150.00
Northland. A very popular white		*Jumbo Cardinal. Brilliant Red. 15.00 *Red Beauty. Scarlet. 15.00	125.00
nOlivette Improved	00 125.00	*Tom Knipe. Fine Red	125.00 125.00
*White Sidney Littlefield. New	$\begin{array}{ccc} 00 & 120.00 \\ 00 & 150.00 \end{array}$	*William Sim. Cardinal Red 20.00	150.00
White Sim. White	00 125.00	*Woosters Scarlet. New Red 12.00	100.00
YELLOW			
nCanary Queen. Bright lemon 18.6	00 150.00	MAROON	
Colorado Gold. Yellow	00 150.00	OWNER IN THE	
nDesert Sun. Pale Gold Buff	00 150.00	C. W. Weld. Dark Red Maroon	80.00
*Harvest Moon. Orange yellow	00 150.00	Tilly. Red Maroon. 20.00 *Topper. Velvety Maroon. 20.00	160.00 150.00
Midas. Yellow. 15.1 Miller's Yellow. Yellow. 12.1		Woburn. Maroon	90.00
*Pattens Yellow. Yellow. 20.	00 150.00		00.00
Shirley Ann. Yellow	00 125.00	I AVENDED C DUDDIE	
LIGHT PINK		LAVENDER & PURPLE	
Catron Shell Pink Sim. Sport of Wm. Sim 20.0	00 150.00	Lavender Rose. True Lavender 15.00	125.00
nGordon. Delicate shell pink 18.6	00 150.00	Royalty. Royal Purple	180.00
Hercules Virginia. Light Pink 15.0	00 125.00		
Janie. Light Pink 20.0	00 150.00	VARIEGATED	
nLight Pink Littlefield	00 150.00		
Light Pink Sim. Light Pink 20.0 Mr. Pink. Light Pink 20.0	$\begin{array}{ccc} 00 & 150.00 \\ 00 & 150.00 \end{array}$	Barbara Brigham. Orange with pink stripe 10.00	90.00
Netta. Light Pink	00 125.00	Candy Lee. Variegated 20.00	150.00
Petersen's Pink Sim. Sp. of Wm. Sim	00 150.00	Cooper Variegated Sim. Red and white20.00Crimson King. Dark Crimson22.00	150.00 180.00
Shell Pink Sim	00 125.00	Edith. Variegated	150.00
Virginia Supreme. Light Pink 12.0	100.00	Gaiety. White & Red Variegated	150.00
MEDIUM PINK		Geigers Variegated Sim. "Mamie" 15.00	125.00
nBelvedere. Medium Pink	00 150.00	Harlequin. Variegated novelty	125.00
Sidney Littlefield. Medium Pink	00 125.00	Hoosier Gold. Yellow with Pink20.00Mamie. White with Red spots20.00	$\frac{175.00}{150.00}$
Virginia Irvin. Medium Pink. 12.	00 100.00	*Mohawk. Yellow with pink stripes	150.00
Virginia Rose, Medium Pink 10.0	80.00	Orchid Dandy. Orchid Variegated	160.00
SALMON PINK		nPeppermint Stick Littlefield. Variegated pink 20.00	150.00
Apollo. Salmon Pink		Pelargonium. White Overlaid with Maroon 15.00	100.00
Debbie. Salmon Pink	00 150.00	Raspberry Ice. White with pale orchid 15.00	125.00
*Janie, Light Salmon	00 150.00	Sarah Jane Knipe. Bright purple with Silver edge 20.00	150.00
Salmon Sim. Salmon Pink	00 150.00	Saturn. Orange Bronze	100.00
DARK PINK		Scarlet Sim. Variegated	150.00
Baums Supreme. Beautiful Cerise Pink 15.0	00 120.00	Scarlet King. White Overlaid with scarlet 15.00	125.00
Charlene Perk Pick 200	120.00	nScarlet Queen. Orange Variegation	125.00
Charlene. Dark Pink	00 150.00 00 125.00	*Starlight. White with Pink Stripes	125.00 150.00
Dark Virginia Hercules. Dark Pink. 12.0	00 100.00	*nTetra-Sarah Jane. Magenta with Silver Edges 25.00	200.00
*nSaugus Pink. Soft Deep Pink	00 150.00	Unique 15.00	125.00
Virginia Miller. Dark Pink 12.0	00 100.00	nVariegated Littlefield. Medium Pink 20.00	150.00
Minimum order 100 of a Variety—2	50 at the 1000 ra	ate. Variety Harvest Moon, minimum order 250.	

Varieties marked (*) are sold under growers patent or restricted agreement. Varieties marked (n) are new and more recent introductions.

YODER BROS. CARNATION ROOTED CUTTINGS FOR 1955

	00122 001111100 001 1000
Achilles. A large clear white	Venus. Salmon PinkP-3
Adonis. WhiteP-3	Ceres. King Cardinal color
Aurora. A large whiteP-3	Neptune. ScarletP-3
Jupiter. A large whiteP-3	Siren. A bright scarlet
Juno. Medium sized whiteP-2	Titan. Intense crimson redP-2
Apollo. Salmon PinkP-3	Mentor. Rose PinkP-1
Aphrodite. Light PinkP-3	Vesta. Crimson
Cupid. A true Briarcliff Pink	Vulcan. Crimson—maroon groupP-3
Diana. Light PinkP-3	Cassandra. A lively yellow
Eros. Light Pink	Midas. YellowP-3
Minerva. Deep scarlet-pink	Saturn. BronzeP-3
Pandora. A dark pink	Orion. Glowing ember

Price

Prices for 50 or multiples of 50 of a variety per shipment are indicated in this table.

Classification		per ship	oment are indi	cated in this ta	able.	
	Per 50			Per 100 _		
	50	100-250	300-450	500-950	1000-2450	2500 up
P-1	\$7.50	\$14.25	\$13.50	\$12.75	\$12.00	\$11.25
P-2	6.75	12.80	12.15	11.45	10.80	10.10
P-3	12.00	11.50	11.05	10.55	10.10	9.60

No. C.O.D. Orders Accepted. Prices subject to change without notice.

A.B.C. Supreme Quality Rooted Cuttings

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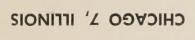
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CHRYSANTHEMUM CUTTING ORDER

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ing, freezing, delay, or	damage in tran	nsit. Any damage due to	o such causes, sl	thy condition and we convold be reported immediation company accepts	diately to the t	ransportation carrier an	d an inspection						
		THIS TA	ABLE INDICA	TES PRICES PER 10	00.								
	Price	ro 070	000 450	500 050	1000 0450	0500							
	ssification C 4	50-250	300-450 \$ 5.70	500-950 \$ 5.40	1000-2450	2500 up							
	S-4 S-3	\$ 6.00 6.50	\$ 5.70 6.15	\$ 5.40 5.85	\$ 5.10 5.50	\$ 4.80 5.20							
	s-s S-2	7.00	6.65	6.30	5.95	5.60							
	5-2 S-1	7.50	7.15	6.75	6.40	6.00							
	P-3	8.00	7.60	7.20	6.80	6.40							
	P-2	9.00	8.55	8.10	7.65	7.20							
	P-1	10.00	9.50	9.00	8.50	8.00							
	N-9	12.50	12.00	11.50	11.00	10.50							
	P-0	15.00	14.25	13.50	12.75	12.00							
		10.00	14.20	10.00		12.00							
			WHITE P	POMPONS									
Quantity Variety	Price Class Amount	Quantity Variety	Price Class Amount	Quantity Variety	Price Class Amount	Quantity Variety	Price Class Amount						
6 Week Vari	eties	Maestro	S-1	Norona	S-2	Songster	S-3						
Sept. Morn	S-1	Renown	S-1	Pristine	S-3	Cottontop	S-1						
White Wonder	S-1	Classic	S-2	Minong	S-1	Shooting Star	S-1						
Chris. Columbus	S-3	Silverplate	S-2	Silvertone	P-2	Vesta	P-1						
Ostara	P-1					Granite State	S-3						
						Cream Halo	P-1						
7 Week Varie		8 Week Var	ieties	9 Week Var		Arcadia	S-2						
Avalanche	S-1	Silver Ball	S-4	Popcorn	S-3	Silver Cloud	P-2						
White Cloud	S-1	Calif. White Da		White Popcorn	S-2	Halo	S-3						
Horizon	S-2	(Kimoto's Whi		Keepsake	S-2		S-3						
Marshmellow	P-2	Irene	S-2	Pinocchio	S-3	White Doty	S-3						

PINK POMPONS

			111411					
	Price		Price			Price		Price
Quantity Variety	Class Amount	Quantity Variety	Class Amount	Quantity	Variety	Class Amount	Quantity Variety	Class Amount
Dark Valencia	S-3	Dark Enchantress	6.0	DI.	Pk. Minstrel	P-1	Coronet	S-1
Dubonnet Valenci		Argyle	P-2	Imp	. Pk. Minstrel	P-1	Rosalind	S-2
Orchid Valencia	S-1	Debutante	S-3				Defiance	5-2
Salmon Valencia	5-2	Imp. Dk. Supreme	S-2		14 Week Varie	tion	Medallion	S-2
Heritage	S-2							
		Minstrel	S-3	Rivi	era	S-3	Rose Medallion	P-3
13 Week Varie	eties	Lt. Pk. Minstrel	5-3	Dk.	Riviera	5-3	Pk. Treas. Island	5-3
Enchantress	5-2	Ruffled Supreme	S-2	Seri	rated Riviera	P-3	Lynda McLane	P-1
		,		,				
			WHITE ST	ANDARD	S			
0.14 1.14 1.		1 20 344 - 1 34				C 0	10 Week W	
8 Week Varie		10 Week Varie	ties	Moi	nument	S-3	12 Week Var	
Silver Sheen	S-3						Chattanooga	S-3
White Chief	S-2	Betsy Ross	S-3				December Glory	S-4
Christina	S-2	Giant Betsy Ross	S-4		II Week Varie	ties	Margaret Moelle	
		Ind. White	S-4		I WOOK VOIL		· · · · · · · · · · · · · · · · · · ·	
9 Week Varie	ties			Ster	ling	S-2		
Nightingale	S-2	Richard Mandel	S-2	Mai	_	S-3	13 Week Var	iatias
		Jean Elizabeth	S-3	Mef		S-4		
Granite State	5-3	Crystal Queen	S-3				December White	
Ambassador	S-2			Wh	ite Frick	S-2	White Mistletoe	S-2
, Wilson's White	S-2	Wh. Fern Edwards	S-3	Ind	iana Market	S-1	Snowline	S-2
Albatross	S-4	Mrs. Iwata	P-1	Cre	am Mefo	S-2	Smith's White	5-4
Snow White		White Pockett		1			Smith's Cream W	
snow write	S-3	will Pockett	3-2	·	ite Peter John	3-3	Smith's Cream W	n. F=1
			VELLOW C	TANDADE	. c			
			YELLOW S					
8 Week Varie	ties	Sunglew	S-2	Yell	ow Pockett	S-2	12 Week Var	ieties
Gold Lode	S-2	Yellow Albatross	P-1	Yell	ow Monument	S-3	Dk. Yel.	
Celestra	S-2	Yellow Ivanhoe	P-1			S-1	Chattanooga	P-2
					cy Dew	3-1	Yel. Chattanooga	
Harvest Golden	S-1	· ·	S-2				_	
Mrs. Kidder	S-3	Good News	S-4		O Mart Mart	a *	Golden Pearson	S-3
Butterball	S-2				1 Week Varie	ries	Mrs. Calkins	S-1
Blazing Gold	S-4			Vell	ow Marketeer	0.2	Sungold	S-3
Honeysweet	P-0	10 Week Varie	ties				Golden Mrs. Ross	
						S-4	Yellow Moeller	
Valiant	P-0	Imp. Ind. Yellow	S-4	Frie	ndly Rival	S-3	reliow moeller	S-2
		Ind. Yellow	S-4	Yell	ow Mefo	S-4	13 Week Var	ieties
		Dk. Ind. Yel. (Pots)		Cre		S-2	Golden Mistletoe	
9 Week Varie	ties							
		Sue Sally Jones	S-2	Puro		S-1	Chalice	S-1
Smith's Superlative	e S-1	Yellow Queen	S-3	Har	vester	S-3	Tobin's Yellow	S-3
Yel. Ambassador	S-2	Jamboree	S-1	Mar	ie DePetris	S-3	Meteore	S-3
Yellow Bergen	S-2	Yellow Beauty	S-2	Yell	ow Peter John		Dauntless	S-2
	,	,						3-2
		BRC	NZE & RE	D STAND	ARDS			
8 Week Varie	ties	Apricot Queen	S-2	And	conda		Br. Peter John	S-3
Mayfords Triumph	S-1	Detroit News	S-4	Oak	dale	S-1		
Amber Bright	S-1	Royal Bronze	P-3	Br.	Orchid Queen	S-2	12 Week Vari	eties
				Mrs.		S-2	Gladys Pearson	S-3
9 Week Varie	ties	10 Week Varie					Oak Leaf	
Hilda Bergen	5-2	Ind. Bronze	S-4	Mrs.	Roy	S-3		S-3
Glitters		ind. Gold. Bronze		Gar	net King	S-2	Muto's Crimson	S-2
	;		P-3		I Week Mark	tion	70 M	
Red Glitters		Dk. Ind. Bronze			1 Week Varie		13 Week Vari	
Ivanhoe	5-2	Delaware	P-1	Br.	Frick	S-2	Bronze Mistletoe	S-2
			PINK STA	NIDADDS				
8 Week Varie	ties	10 Week Varie	ties	Pink	Fern Edwards	S-3	Dk. Peter John	S-3
Pink Chief	5-3		S-2	Que	en of Pinks	S-4	Lt. Peter John	S-3
	6.0		5-2	Pink	Pockett	S-2		
Maj. Bowes	S-1	Ind. Pink	S-4		rockett	3-2		S-3
		Orchid Queen	S-2	1	1 Week Varie	ties	Ed. Seidewitz	S-2
9 Week Variet	ties	Lavender Queen	S-2	Aris	tocrat	S-2		
Eu mandum	6.1						13 Week Vari	-si
Sugarplum		Dk. Orchid Queen				S-3		
Bunbu	S-2	Phillip Kay	S-3	Rose	Delight	5-1	Pink Mistletoe	S-2
			CDIDED	TYPES				
				TYPES				
Queens Lace	S-3	Yel. Rayonnante	S-2	Mrs.	Walker	S-1	Luyona	P-3
Kay Tashima	S-1	Lorraine	S-1	Mar	y Garden		Yel. Curly Spider	
White Rayonnante			P-3					
Moribana	1						Antique	P-1
		Waikiki	S-1				Mrs. Eisenhower	P-1
Yellow Lace		Gena Harwood	S-2			P-1	Sue Sally Jones	S-1
Gold Lace	P-3	Nomago	S-2	Wh.	Mary Garden	P-1		S-2
Hooked Yel. Lace			S-1			S-3		3 -2



1335 WEST RANDOLPH STREET

BUSINESS REPLY CARD
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

AMERICAN BULB COMPANY

FIRST CLASS Permit No. 6869 CHICAGO, ILL.

CROFT - CROFT - CROFT

The cream of the Croft crop from the best old time growers. All Lilies Precooled, well graded. Offer the following sizes:

/ × No.	per 100	per case
7/ 8 - 250 to case 4 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$24.00	\$55.00
8/ 9 - 200 to case 1955	43.00	80.00
9/10 - 150 to case	52.00	72.00

Due to scarcity we offer subject to prior sale. Shipments from Chicago and New York.

— WIRE YOUR ORDER . . . OR USE ATTACHED CARD -

NWOT
STREET
AMAN
When Wanted
Cases Lil. Croft 9/10
Cases Lil. Croft 8/ 9
8 \\ Thora Lil. Croft \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Please ship us via

AMERICAN BULB COMPANY

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Supplies for the Greenhouse

WATER BREAKERS



The "400" Water Breaker

No. 400. Gives	a large	volume of water	
with very little	pressure.	. ¾ in. coupling.	
Each			

FLAT SPRAY

Junior-No. 7047. Stamped brass.

Deluxe-No. 7000. Cast brass.

Junior. Each .. \$0.60 Deluxe. Each.. 1.30



Doz.					.\$ 5.60	
Doz.						



HOT HOUSE SPRINKLER

³/₄-in. coupling

Stamped Bra	ss. No. 36	604.	
3-in. Each	\$0.80	Doz	 \$ 8.00
4-in. Each	1.00	Doz	 . 10.40

SEEDLING SPRINKLER WITH SHUT-OFF



A new type fine mist atomizer with fingerdepressor shut off. Precision made. The last word in seedling sprinklers.

	hose connection.	
Each	 	.\$4.00

HOSE—Greenhouse

"DURO"-Very finest grade, red rubber hose, especially designed for greenhouse use. Very flexible.

2-ply—Heavy duty, high pressure.	
3/4"—Uncoupled. Per ft	. \$0.49
50-ft. length—Coupled	

KOROSEAL PLASTIC HOSE

B. F. Goodrich's tough, durable, top-selling plastic hose. Fast-flow, flexible, lightweight Handles pressures up to 50 lbs. Green.

1/2"	Garden	Hose			
		Fooh	Caca	of	5

25 ft. cpld. (\$5.75 retail) \$4.17 50 ft. cpld. (\$9.80 retail) 7.11	\$19.80 33.75
3/4" Growers Hose	
25 ft. cpld. Each	

WOOD POT LABELS

					1 (1	1000
					Plain	Painted
$4x\frac{5}{8}$	ins.	(1000)	per	carton)	\$2.90	\$3.40
$5x\frac{5}{8}$	ins.	(1000)	per	carton)	3.10	3.70
				carton)		4.15
$8x\frac{5}{8}$	ins.	(500	per	carton)	5.00	6.20
$10x\frac{5}{8}$	ins.	(500	per	carton)	6.00	7.30
$12x\frac{5}{8}$	ins.	(500	per	carton)	7.00	8.60

WOOD GARDEN LABELS

8x 7/8	ins.	(250 p	er ca	rton)	\$ 7.30	\$ 8.50
$10x \frac{7}{8}$	ins.	(250 p	er ca	rton)	8.30	9.60
$12x1\frac{1}{8}$	ins.	(100 p	er ca	rton)	14.00	16.00

WOOD TREE LABELS

 $3\frac{1}{2}x\frac{5}{8}$ ins., copper-wired....\$3.40 \$4.10

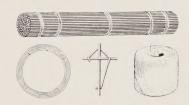
WEATHERPROOF PENCILS

Each....10c Doz.....\$1.00 Gross....\$10.00

CANE STAKES—Pencil Thickness

	Per 1000	Per Bale
1½-ft. Green	. \$ 3.50	\$ 6.00
2 -ft. Green	4.75	8.00
2½-ft. Green	. 5.75	10.00
3 -ft. Green	7.50	13.00
3½-ft. Green	. 9.50	16.50
4 -ft. Green	. 10.50	18.00
2000 to the ba	ale.	

GALVANIZED WIRE STAKES



		8-	gauge	9-gauge						
		Per 100	Per 1000	Per 100	Per 1000					
3	ft.	 . \$3.75	\$28.00	\$3.10	\$24.20					
4	ft.	 . 4.60	37.30	3.95	31.70					
5	ft.	 . 5.75	47.10	4.90	39.80					
6	ft.	 . 6.85	55.20	5.85	47.60					
7	ft.	 . 7.90	64.60	6.80	55.50					
8	ft.	 . 8.95	73.80	7.95	63.90					

GALVANIZED BENCH WIRE

16-gauge,	50	lbs.							٠			٠		\$9.40
18-gauge,	50	lbs.												9.95

EVERLASTING STAKE FASTENERS

Per	500 \$2.50	0 Pe	er 5000.	\$24.00

COTTON TWINE

3 or 4-ply, 5-lb. bag	. \$4.50
-----------------------	----------

WHEELBARROW—Steel



Built for heavy work and constant use. Steel tray, 35x30 in. Capacity 4 cu. ft. Ballbearing wheel with rubber tire. Hardwood handles.

SOIL SHREDDERS THE NEW IMPROVED LINDIG



The new Model B Lindig Soil Shredder is equipped with a newly de-veloped AC-TIONIZED blade made of a special steel to resist the

most severe wear. Each shredding blade is free swinging. The stationary blades are individually mounted with a spring on each blade. This feature allows only the required opening to be made for a non-crushable object to pass through the shredder, and is found only in the Lindig patented soil shredder.

The new Model B shreds faster and more uniformly all soils, peat, manure, compost piles, leaf mold, sphagnum moss, shingle

tow, and sods.

Model JR-B. For the small grower or as a second shredder for the large grower to use on the potting bench. Height 27", length 36". Hopper size 15" x 15". Rotor wide with 3 sets of blades.

Without power \$ 95.00 overall. Steel wheels.

Model No. 1B-4. Feeder hopper size, 16 x 18 in. beater drum, 81/2 in. wide, with four rows of teeth. Without motor.....\$130.00 Model No. 1B-6. Same as Model No. 1B-4, except that beater drum has six rows of teeth. Designed for extra fine shredding. Without motor Model No. 2B-6. Feeder hopper size, 16 x 20 in. Beater drum, 19½ in. wide, with six rows of teeth. Without motor.....\$160.00 Model No. 2B-8. Same as Model No. 2B-6, except beater drum has eight rows of

teeth. Designed for extra fine shredding. 1B-4, 1B-6, or 2B-6. Each.....\$65.50 1 h.p. For use with Models 2B-6 or 2B-8. \$87.50 Gasoline Engine. 11/2 h.p., for use with all

set\$20.00 Screening Attachment. For use with all models. Designed to remove rocks, sticks, roots, and other undesirable material from the shredded soil.

For Models No. 1B-4 and 1B-6\$50.00 For Models No. 2B-6 and 2B-8 60.00 Larger models and conveyors also available. Send for detailed circular.

LARGER MODELS

Model 24. 40" high and 4 ft. in length. Capacity: 25 cu. yds. per hour. Designed primarily to be hand fed by 2 or 3 men. Shredding rotor: 24" wide with 56 blades. Pneumatic wheels. Without power. \$375.00

 With power take-off
 495.00

 With 3 h.p. electric motor
 610.00

 With 5 h.p. electric motor..... 645.00 With 10 h.p. gasoline engine.. Model C24. Same as Model 24 with the addition of automatic feeding conveyor.

Model CL24. Same as Model 24 with the addition of automatic feeding and loading conveyors.

Write for detailed circular and prices of Models 24, C24, and CL24.

PLANT BANDS OF ALL TYPES

"Easi-Off"



Saves time and labor. Bands are removed without cutting; therefore, the dirt ball and roots are not disturbed. .

WOOD PLANT BANDS

	-			_	Weight	
CA	AT.	Size	in ir	iches	per 1000	Per 1000
No.	M-310	-13/4	x13	4x2½	18 lbs	s. \$4.10
No.	M-320-	-2	x2	$x^{21/2}$	20 lbs	s. 4.50
No.	M-340	$-2\frac{1}{2}$	x21	2x3	28 lbs	s. 4.90
No.	M-350	-3	x3	x3	30 lbs	s. 5.30
No.	M-360-	-3	x3	x4	38 lbs	5.75
No.	M-391-	_4	x4	x4	40 lbs	6.75

LIGHT WOOD FLATS

For handling and shipping all sizes of Plant Bands

Per 100
M-370; holds twelve 13/4-in. Bands. \$3.60
M-390; holds twelve 2-in. Bands 3.90
M-392; holds twelve $2\frac{1}{2}$ -in. Bands 5.00
M-393; holds six 3-inch Bands 4.75
M-394 ; holds six 4-inch Bands 5.75
Shipped promptly from the factory in Michigan.

STAPLED WOOD PLANT BANDS

Shipped promptly	from the factory	in Illinois.	
Sizes in inches	Per 1000	Sizes in inches	Per 1000
$1\frac{3}{4}$ x $1\frac{3}{4}$ x $2\frac{1}{2}$	\$4.70	$2\frac{1}{2}x2\frac{1}{2}x3$	\$5.50
$2 \times 2 \times 2\frac{1}{2} \dots$	4.80	3 x3 x3	5.90
2 x2 x3	5.10	3 x3 x4	6.10
$2\frac{1}{4}x^{2\frac{1}{4}}x^{2\frac{1}{2}}$	5.00	4 x4 x3	6.20
2½x2½x2½	5.10	4 x4 x4	7.10

BIRD VITA-BANDS Nutrient Treated

Vita-Band H for 40-week growing period. Vita-Band 10 for 10-week growing period.

Sold in Units		PI	RICES	PER	THOUS	SAND		
of 1000 only	1½x1½ x2½	13/4×13/4 ×21/2	2x2 x2½	2x2x3	2½x2½ x3	3x3x3	4x4x3	4x4x4
VITA-BAND H		5.45	5.80	6.90	7.65	8.50	10.45	12.90
VITA-BAND 10	3.70	4.00	4.55	5.05	6.00	6.90	9.00	11.25

TOM THUMB FLATS

No. 1 for 1 doz. 13/4-inch Bands. No. 2 for 1 doz. 2-inch Bands.

SHADING CLOTH

AMERICAN BLACK SHEEN SHADING CLOTH

For shading early chrysanthemums during the normal summer growing season in greenhouses, cloth houses, or outside, as it will bring your blooms in on schedule. Ideal for outdoor shading as it will allow the rain to penetrate and not lie in pools on top. Guaranteed fast black, closely woven, treated and pre-shrunk to produce 99% darkness.

Available in bolts approx. 36 inches wide or cut to any length. It can be sewn to any width in multiples of 36 in.

To call be be will to ally winder all interespect of		
PRICES PER SQ. YD.	Unsewed	Sewed
100 sq. yds. or more	\$.59	\$.65
50-99 sq. yds		.70
20-49 sq. yds		.75
Less than 20 sq. vds. MINIMUM CHARGE	15.00	15.00

KNIGHT BLACK SHEEN SHADING CLOTH

A heavier cloth designed for indoor shading on a year-round program as it cuts out 100% of all light. Recommended especially by universities and experimental stations for off-season growing where total exclusion of light is essential Otherwise same as American Black Sheen listed above.

PRICES PER SQ. YD.	Unsewed	Sewed
100 sq. yds. or more	\$.65½	$.71\frac{1}{2}$
50-99 sq. vds		$.76\frac{1}{2}$
20-49 sq. yds		$.81\frac{1}{2}$
Less than 20 sq. yds. MINIMUM CHARGE	16.50	16.50

LONG LIFE SARAN CLOTH HOUSE

SARAN, the new material for cloth houses, is fast making the old cotton cloths obsolete. SARAN is a plastic screening made by Dow Chemical Co. and will outlast copper screening, giving 10 years service. Non-inflammable and impervious to water. Air circulates freely through its fine mesh with 68% light filtration.

		NEW JERSI	
33' x 33'	. \$113.93	$66' \times 132'$	\$610.55
33' x 66'	. 188.79	$66' \times 165'$	752.37
$33' \times 99' \dots$. 274.82		692.85
$33' \times 132' \dots \dots$. 351.54	$99' \times 132'$	873.27
66' x 66'	. 358.98	$99' \times 165'$	1074.62
$66' \times 99' \dots \dots$. 480.81		

A. F. S. SPECIAL HEAVY PLASTIC STERILIZING CLOTH

After years of experimenting we have found a heavy plastic material that makes the best sterilizing blanket so far. Strong (heavy 12 gauge), yet flexible.

Makes a tight joint at bench edges. Light (15 oz. a sq. yd.) and

easy to handle. Transparent.

Available in any length or width, but pieces 6 ft. or 8 ft. wide are the most popular Price, F.O.B. Philadelphia, Per sq. yd....\$1.75

FERTILIZERS

MMONIUM CIT DILATE 9107 Nites

AMMONIUM SULPHATE, 21% Nitrogen. 25 lbs. \$ 1.75 50 lbs. \$ 3.25 100 lbs. 5.50 500 lbs. 26.25 1000 lbs. 50.00 Ton 95.00
CALCIUM SULPHATE. (Agricultural Gypsum). 25 lbs. \$1.00 50 lbs. \$1.50 100 lbs. 2.50 500 lbs. 9.00
CHELATED IRON. "Sequestrene" 12%. 1 lb. \$2.50 5 lb. \$8.75 50 lb. 55.00
IRON SULPHATE. For acidifying the soil. 10 lbs. 75¢ 25 lbs. 1.50 50 lbs. 2.50 100 lbs. 4.50
MURIATE OF POTASH. (Potassium Chloride). 62% Potash. \$ 200 lbs. 100 lbs. \$ 4.75 500 lbs. \$ 21.25
NITRATE OF SODA. 16% Nitrogen. 100 lb. bag\$ 5.50 500 lbs\$26.25
POTASSIUM NITRATE. Analysis: 16-0-26. 25 lbs. \$ 5.00 800 lbs. \$ 112.00 Ton 260.00
SUPERPHOSPHATE. 20% Phos. (80 lb. bags). 80 lbs. 2.00 480 lbs. 11.04 960 lbs. 21.12 Ton 42.75
SOLUBLE FERTILIZER (Kapco). Analysis: 15-30-15 or 20-20-20 Specify which. 25 lbs. \$ 5.50 80 lbs. \$16.00 800 lbs. 152.00
VERTAGREEN. Analysis: 5-10-5. 50 lbs \$ 1.75 100 lbs \$ 3.35

INSECTICIDES AND FUNGICIDES

No.	Type	Each *	Deposit	
G-52	TEPP		\$3.75	
G-54	Parathion	. 8.00	3.75	
G-57	Dithion		3.75	
G-60	Aramite		3.75	
G-62	Malathion	. 9.75	3.75	
*NOTE: The Deposits on the Bombs are				
	ded when they are	returne	d to us	
prepa	iid.			
	MITE, 15% Wettable.			
	b			
CHL	ORDANE, 5% Dust. 50	0 - lb	\$ 7.50	
CHL	OROBENZILATE, 25°	% Wetta	ble	
4 lk)		\$ 6.00	
DDT,	50% Wettable. 4 lb.		\$ 1.60	
FERM	MATE, 4 lb		\$ 2.45	
Cas	se of 12 4-lb		25.80	
	ANE, 25% Wettable.			
	ATHION, 50% Emuls			
	t		\$ 2.95	
	lon			
MILI	DEX , 3 lb		\$ 6.30	
NICOFUME PRESSURE FUMIGATORS.				
Cas	se of 12 ½-lb		. \$ 4.50	
Cas	se of 12 1-lb		8.55	

AEROSOL BOMBS.

ID FUNGICIDES
NICOFUME LIQUID. Quart \$ 3.20 Gallon 11.05
ORTHOCIDE 50 W . Contains Captan 5 lb
PARATHION, 15% Wettable. 4-lb\$ 3.00
PARZATE, 3 lb \$ 2.85
PLANTFUME SMOKE GENERATORS 5,000 cu. ft. size, case of 36\$10.50 20,000 cu. ft. size, case of 12
SANTOMERSE S. Gallon\$ 5.50
SNAILICIDE , 5-lb
SNAROL. Metaldehyde Bait. 1-lb. \$.50 2½-lb. \$ 1.00 6-lb. 2.00 50-lb. 10.00
SODIUM SELENATE. Pure 4 oz
SODIUM SELENATE POWDER. "Seltox" 25-lb. \$ 7.25 50-lb. \$ 13.50 100-lb. 24.00 500-lb. 112.50
VAPOTONE TEPP SPRAY. Gallon \$11.90
ZERLATE. 3 lb. \$ 2.45 Case of 12 3 lb. 25.80